ORDER NO.DSD0401001C1

B24

Service Manual

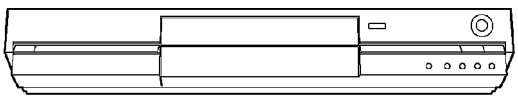
DVD Video Recorder

DMR-E55P / DMR-E55PC

Colour

(K).....Black Type

(S).....Silver Type



Notes: The part of DVD Drive (VXY1794) is listed separately.
Please refer ORDER No. RAM0402001C0

SPECIFICATIONS

Specifications

Power supply	AC120 V, 60 Hz
Power consumption	25 W
Recording system	DVD video recording format (DVD-RAM), DVD video format (DVD-R)
Optical pick-up	System with 1 lens, 2 integration units (662 nm wavelength for DVDs, 790 nm wavelength for CDs)
Recordable discs	·12 cm 4.7 GB DVD-RAM discs ·12 cm 9.4 GB DVD-RAM discs ·8 cm 2.8 GB DVD-RAM discs ·8 cm 1.4 GB DVD-R discs (for General Ver. 2.0) ·12 cm 4.7 GB DVD-R discs (for General Ver. 2.0) ·12 cm 4.7 GB DVD-R discs (for General Ver 2.0/ 4X-SPEED DVD-R Revision 1.0)
Recording time	Max. 8 hours (using 4.7 GB disc) XP: 60 minutes SP: 120 minutes LP: 240 minutes EP: 360 minutes or 480 minutes
Region number	Region No.1
Discs played	·12 cm 4.7 GB DVD-RAM discs ·12 cm 9.4 GB DVD-RAM discs ·8 cm 2.8 GB DVD-RAM discs ·12 cm 4.7 GB DVD-R discs (for General Ver. 2.0) ·DVD-VIDEO discs ·DVD-Audio discs ·CD-Audio discs (CD-DA) ·Video CD discs ·CD-R/ CD-RW discs (CD-DA, Video CD, MP3 formatted discs)
Video system	
TV system	NTSC system, 525 lines, 60 fields
Recording system	MPEG2 (Hybrid VBR)
Input	·LINE (pin jack x3), 1.0 Vp-p; 75 Ω ·S connector x3 Y: 1.0 Vp-p; 75 Ω C: 0.286 Vp-p; 75 Ω

Output	·LINE (pin jack x1), 1.0 Vp-p; 75 Ω S connector x1 Y: 1.0 Vp-p; 75 Ω C: 0.286 Vp-p; 75 Ω
Component video output (480P/480i)	Y: 1.0 Vp-p; 75 Ω PB: 0.7 Vp-p; 75 Ω PR: 0.7 Vp-p; 75 Ω
Antenna reception input	TV Channel: 2ch-69ch, 75 Ω CATV Channel: 1ch-125ch, 75 Ω
Audio system	
Recording system	Dolby Digital (XP/SP/LP/EP)
Input	LINE (pin jack) x3 Reference input: 309 mVrms FS: 2 Vrms (1 kHz, 0 dB) Input impedance: 47 kΩ
Output	LINE (pin jack) x1 Reference output: 309 mVrms FS: 2 Vrms (1 kHz, 0 dB) Output impedance: 1 kΩ (Load impedance: 10 kΩ)
Number of channels	Recording: 2 channels Playback: 2 channels
Other input/output connectors	Digital audio optical output connector
Dimensions	Approx. 430 (W)x79 (H)x274 (D) mm [Approx. 16 15/16 ″ (W) x 3 1/8 ″ (H) x 10 13/16″ (D)] (excluding protrusions)
Mass	Approx. 3.3 kg (7.28 lbs)
Operating temperature range	5 °C-40°C (41 F-104 F)
Operating humidity range	10 %-80 % RH (no condensation)
Clock unit	Quartz-controlled 12-hour digital display
LASER Specification (Class I LASER Product)	
Wave length	775-815 nm 655-666 nm
Laser power	No hazardous radiation is emitted with the safety protection.
Power consumption in standby mode	approx. 2.9 W

Notes : Mass and dimensions are approximate.
Specifications are subject to change without notice.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. Safety precautions

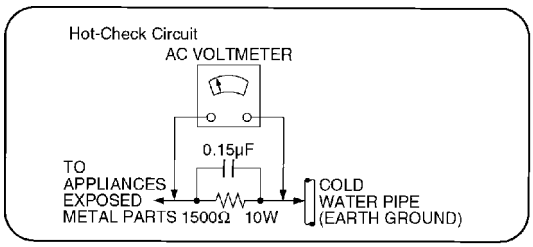
1.1. General guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. Leakage current cold check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to thechassis, the reading should be between 1M Ω and 5.2M Ω . / When the exposed metal does not have a return path to the chassis, the reading must be ∞.

Figure 1



1.1.2. Leakage current hot check / (See Figure 1 .)

1. **Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.**
2. **Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1 .**
3. **Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.**
4. **Check each exposed metallic part, and measure the voltage at each point.**
5. **Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliampere. In case a measurement isoutside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

1.2. Caution for fuse replacement

(For English)
CAUTION:
Replace with the same type fuse:
(Manufacturer: SOC or Hollyland, Type: ET or 50T, 1.6A, 250V)

(For Canadian French)
ATTENTION:
Utiliser un fusible de rechange de même type:
(Fabricant: SOC ou Hollyland, Type: ET ou 50T, 1.6A, 250V)

2. Prevention of Electrostatic Discharge (ESD) to Electrostatic Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatic Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistor-sandsemiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap,**

whichshould be removed for potential shock reasons prior to applying power to the unit under test.

2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparableconductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. **Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficientto damage an ES device).**

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3. Precaution of Laser Diode

CAUTION:

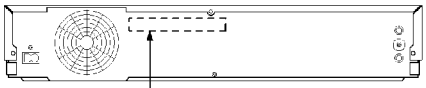
This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.
Wave length: 775-815 nm/655-666 nm
Maximum output radiation power from pickup: 100 μ W/VDE
Laser radiation from the pickup lens is safety level,but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

ACHTUNG:

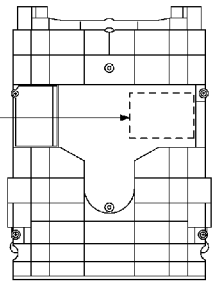
Dieses Produkt enthält eine Laserdiode.
Im eingeschalteten Zustand wird unsichtbare Leserstrahlung von der Laserinheit adgestrahit.
Wellenlänge: 775-815 nm/655-666 nm
Maximale Strahlungsleistung der Lasereinheit: 100 μ W/VDE
Die Strahlungan der Lasereinheit ungefährlich, wenn folgende Punkte beachtet werden:

1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinhit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlines blicken.
4. Nicht über längere Zeit in die Fokussierlines blicken.



Product complies with DHHS Rules 21 CFR Subchapter J in effect at date of manufacture.
Matsushita Electric Industrial Co., Ltd.
Kadoma, Osaka, Japan

DANGER - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)
CAUTION - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. (IEC60825-1)
ATTENTION - RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL - SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO! - AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING - SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL - SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT - SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEN STRAHL AUSSETZEN.
注意 - 打开时有可见及不可见激光辐射。避免激光束照射。
注意 - ここを開くと可視及び不可視のレーザー光が出ます。ビームを直接見たり、触れたりしないでください。
RQLS0233



CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

4. How to replace the Lithium Battery

REPLACEMENT PROCEDURE

1. Remove the Top case and DVD-RAM drive unit with Main P.C.B. by referring the Disassembling Procedure.

2. Unsolder the Lithium Batteries: B7501 and then replace it into new one.
(As shown in 20.2.1. The Main P.C.B.)

NOTE:

The lithium battery is a critical component. (Type No.: CR2354-1GUF Manufactured by Panasonic.)
It must never be subjected to excessive heat or discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

(For English)

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

(For French)

PRECAUTION

Le fait de remplacer incorrectement la pile peut présenter des risques d'explosion.
Remplacer la pile uniquement par une pile identique ou de type équivalent recommandée par le fabricant. Se débarrasser des piles usagées conformément aux instructions du fabricant.

5. Handling the Lead-free Solder

5.1. About lead free solder (PbF)

Distinction of PbF P.C.B.:
P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control,please set it to 700 ± 20°F (370 ± 10°C).
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).
- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

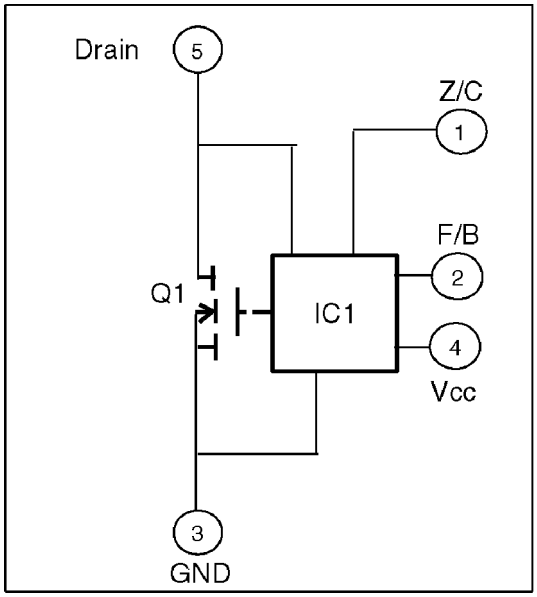
6. Each Buttons

7. New Features

7.1. Function of Power Circuit (IC1150)

1. General
We adopted IC module as the Switching Power Circuit for lower power consumption.
IC1150 is constructed with Switching materials and Control IC, and is partial resonance module.
We realized Switching Power with high efficiency, low noise and low power consumption.

2. Equivalence Circuit to IC1150

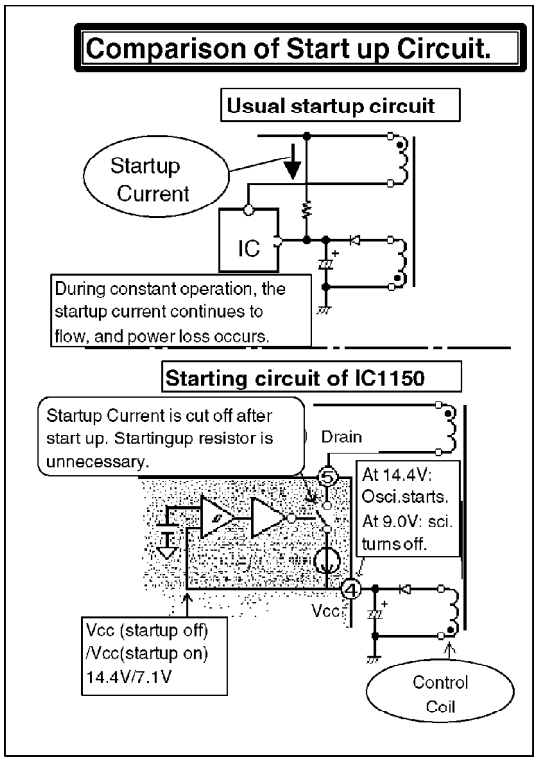


Pin No.	Symbol	Description
1	Z/C	Trigger input terminal. Zero detection voltage: 0.25V It becomes less than 3V, the mode turns to standby.
2	F/B	Bias current feedback input terminal. ● Switching ON time (min.) ~ (max.) 1.5V ~ 4.5V / 0 μ sec. ~ 25 μ sec. ● In standby mode Oscillation stops:less than 0.8V Oscillation starts: over 1.8V
3	GND	GND terminal
4	Vcc	Power terminal of IC. Oscillation starting voltage: Vcc = and over 14.5V Oscillation stop voltage: Vcc = and less than 9.6V Over voltage latching voltage: Vcc = 20V
5	Drain	Drain terminal for Main switching material.

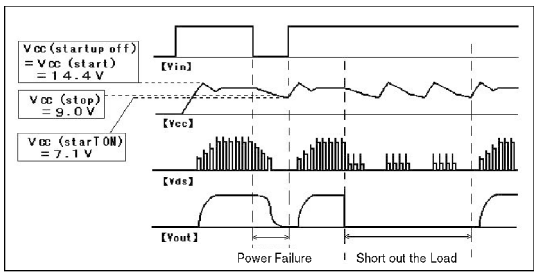
3. Startup Circuit

When power is turned on, input voltage of the Switching Transformer is supplied to IC1150 as the startup power.

After IC1150 has started, the startup current is cut off.
The current of Startup Circuit is supplied as constant current source in IC1150 and as charge current for the capacitor connected between Vcc terminal and GND out side of IC1150 until Vcc reaches 14.4V.
When Vcc reaches 14.4V, the Startup Circuit is cut off, then oscillation starts.
After then, power of IC1150 is supplied from control coil.
In case, the power failure or short out of the load, when Vcc becomes 9.0V; the oscillation stops, furthermore Vcc becomes 7.1V the Startup Circuit starts up and Vcc starts to rise.


Comparison of Start up Circuit.
Usual startup circuit
Startup Current
IC
During constant operation, the startup current continues to flow, and power loss occurs.
Starting circuit of IC1150
Startup Current is cut off after start up. Startingup resistor is unnecessary.
Drain
At 14.4V: Osci.starts. At 9.0V: sci. turns off.
Vcc
Vcc (startup off) /Vcc(startup on) 14.4V/7.1V
Control Coil

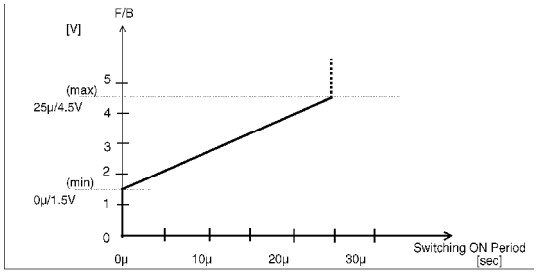
Startup Circuit Timing Chart



Function of Z/C Terminal
When voltage of Z/C reaches 0.25V, Gate signal is output and Drain current starts to flow.

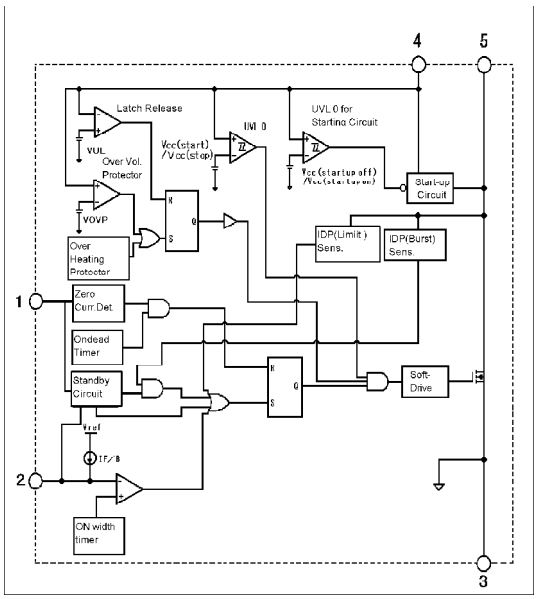
Function of F/B terminal
F/B signal decides Switching ON width in low voltage controlling.

The Switching ON width responds to change of F/B Voltage.



Standby Function
When Z/C Voltage becomes less than 3V, the unit changes to Standby mode.

IC1150 Block Diagram



Signal name

Pin No.	Name	Symbol
1	Zero Current Det.	Z/C
2	Feed back	F/B
3	GND	GND
4	Vcc	Vcc
5	Drain	Drain

8. Taking out the Disc from RAM-Drive Unit when the

Disc cannot be ejected by OPEN/CLOSE button

8.1. Forcible Disc Eject

8.1.1. When the power can be turned off.

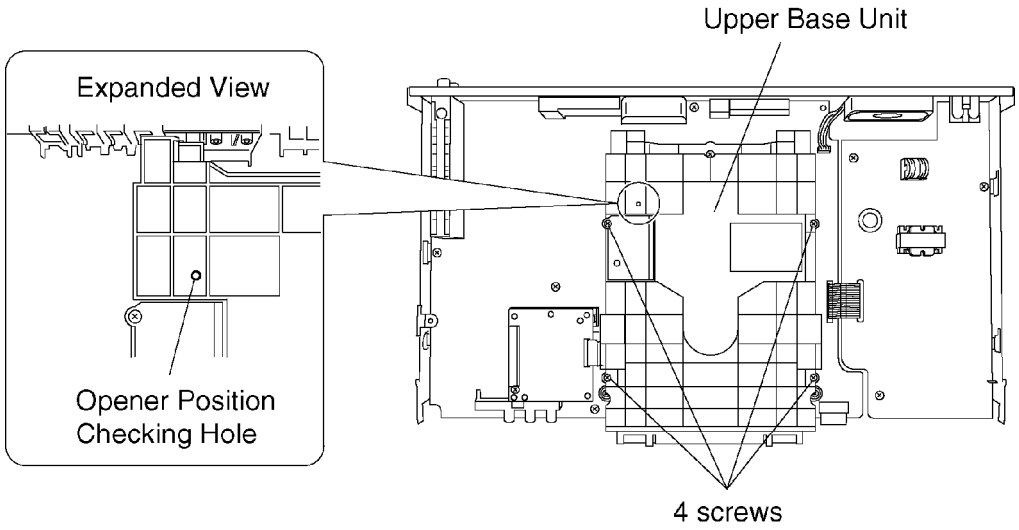
1. Turn off the power and press [STOP] [CH UP] keys on the front panel simultaneously for 5 seconds.

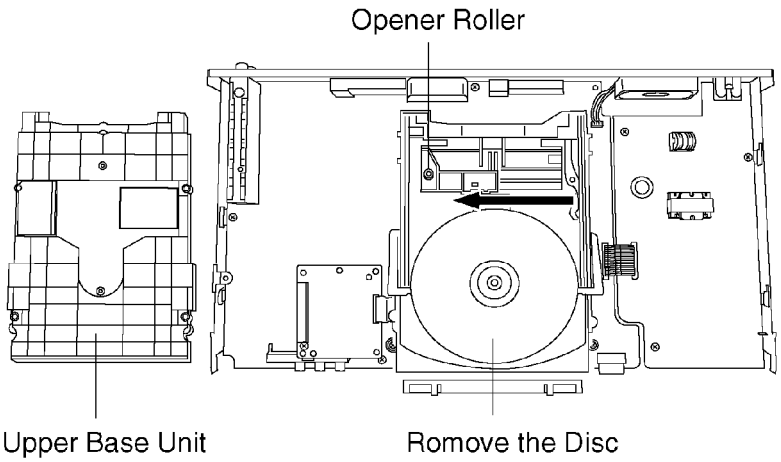
8.1.2. When the power can not be turned off.

1. Press [POWER] key on the front panel for over 10 seconds to turn off the power forcibly, and press [STOP] [CH UP] keys on the front panel simultaneously for 5 seconds.

8.2. When the Forcible Disc Eject can not be done.

1. Turn off the power and pull out AC cord.
2. Remove the Top Case.
3. Remove the Front Panel.
4. Remove 4 screws and Upper Base Unit from DVD-RAM Drive.
5. Take out the disc and put the Opener Roller on fully position for direction of Arrow.
6. Put the Upper Base Unit so that the Opener Roller is inserted into the groove.
7. Check center of Opener Roller is seen through the Opener position Checking Hole, and tighten 4 screws.





9. Service Explorer

Confirm "RAM-Drive Last Error" in Service Mode

Execute Service Mode

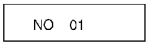
1. Press [STOP], [TIME SLIP] and [OPEN/CLOSE] simultaneously for 5 seconds when P-off.
FL Display:

SERVICE MODE

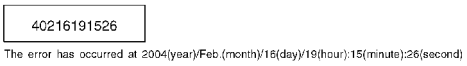
***After finishing display "(7). Factor of Drive Error occurring", press [0] [2] ~[9] [9] keys of the Remote Controller so that 99 memories can be displayed as maximum.**

2. Press [4] [2] keys of remote controller.

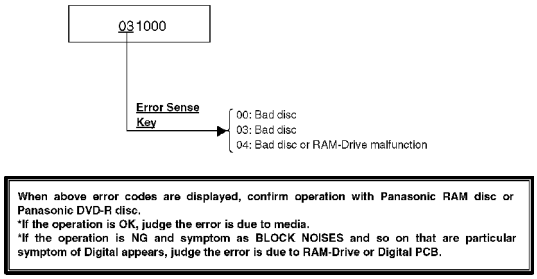
Example of FL Display:
(1) Error Number is displayed for 5 seconds.



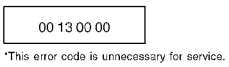
(2) Time when the error has occurred is displayed for 5 seconds.



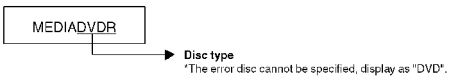
(3) Last Drive Error (1/2) is displayed for 5 seconds.


03 1000
Error Sense Key
00: Bad disc
03: Bad disc
04: Bad disc or RAM-Drive malfunction
When above error codes are displayed, confirm operation with Panasonic RAM disc or Panasonic DVD-R disc.
*If the operation is OK, judge the error is due to media.
*If the operation is NG and symptom as BLOCK NOISES and so on that are particular symptom of Digital appears, judge the error is due to RAM-Drive or Digital PCB.

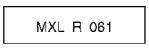
(4) Last Drive Error (2/2) is displayed for 5 seconds.



(5) Error occurring Disc type is displayed for 5 seconds.



(6) Disc Maker's ID is displayed for 5 seconds.



Example of Disc Maker's ID:
DVD-R Disc

No.	FL Display (Disc Maker's ID)	Disc Maker	Country
1	MEI	Panasonic	Japan
2	PVC	Pioneer	Japan
3	MCC	Mitsubishi Chemical Corporation	Japan
4	TDK	TDK	Japan
5	MXL	Maxell	Japan
6	MCI	MITUI CHEMICALS	Japan
7	JVC	Victor JVC	Japan
8	TAIYOYUDEN	Taiyo yuden	Japan
	TYG		
9	GSC	Giga Storage	Taiwan
10	PRODISC	Prodisc	Taiwan
11	PRINCO	PRINCO	Taiwan
12	RITEK	RITEK	Taiwan
13	OPTDISC	OPTDISC	Taiwan
14	LEAD DATA	LEAD DATA	Taiwan
15	CMC	CMC	Taiwan
16	AUVISTAR	AUVISTAR	Taiwan
17	ACER	Acer	Taiwan

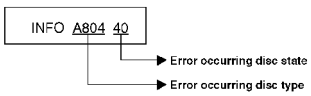
No.	FL Display (Disc Maker's ID)	Disc Maker	Country
18	VIVASTAR	VIVASTAR	Switzerland
19	LGE	LG Electronics	Korea

DVD-RAM Disc

No.	FL Display (Disc Maker's ID)	Disc Maker	Country
1	MEI	Panasonic	
2	MATSUSHITA	Panasonic	Japan
3	MXL	Maxell	Japan
4	PRODISC	Prodisc	Taiwan
5	OPTDISC	OPTDISC	Taiwan
6	CMC	CMC	Taiwan

***Since an display is arbitrarily set up by the disk producer side, the above-mentioned display may be changed.**
Please make it reference as an example of a display.

(7) Factor of Drive Error occurring is left displayed



Error Occurring Disc Type

FL Display	Disc Type
00	DVD-ROM/Video
01	Audio-CD
02	2.6GB DVD-RAM
03	4.7GB DVD-RAM
04	DVD-R

Error Occurring Disc State

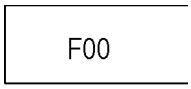
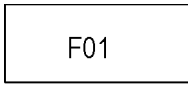
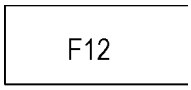
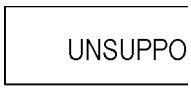
FL Displays (Hexadecimal)	Description			
	Disc distinction state	Cartridge disc state	Cartridge disc state	Disc size
00	OK	With cartridge	Has not been opened yet.	12 cm
10	OK	With cartridge	Has not been opened yet.	8 cm
20	OK	With cartridge	Has been opened.	12 cm
30	OK	With cartridge	Has been opened.	8 cm
40	OK	Bare	Has not been opened yet.	12 cm
50	OK	Bare	Has not been opened yet.	8 cm
60	OK	Bare	Has been opened.	12 cm
70	OK	Bare	Has been opened.	8 cm
80	NG	With cartridge	Has not been opened yet.	12 cm
90	NG	With cartridge	Has not been opened yet.	8 cm
A0	NG	With cartridge	Has been opened.	12 cm
B0	NG	With cartridge	Has been opened.	8 cm
C0	NG	Bare	Has not been opened yet.	12 cm
D0	NG	Bare	Has not been opened yet.	8 cm
E0	NG	Bare	Has been opened.	12 cm
F0	NG	Bare	Has been opened.	8 cm

10. Self-Diagnosis and Special Mode Setting

10.1. Self-Diagnosis Functions

Self-Diagnosis Function provides information for errors to service personnel by "Self-Diagnosis Display" when any error has occurred.
U14, H and F** are stored in memory and held.**
Display on FL will be cancelled when the power is turned off or AC input is turned off during self-diagnosis display is ON.

Error Code	Diagnosis contents	Description	Monitor Display	FL disp
U12	Remote control code error	Display appears when main unit and remote controller codes are not matched.	No display	*CHK RE "*" is remote c code of the ma Display for 5 se
U14	Abnormal inner temperature detected	Display appears when the drive temperature exceeds 70°C. The power is turned off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speedfor the first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.	No display	U14 "U14" is displa minutes.
U99	Hang-up	Displayed when communication error has occurred between Main microprocessor and Timer microprocessor.	No display	U99 Displayed is lef [POWER] key i
H01	Inoperative fan motor	Display appears when inoperative fan motor is detected after powered on. The power is turned off when detecting.	No display	H01 Displayed is lef

Error Code	Diagnosis contents	Description	Monitor Display	FL disp
F00	No error information	Initial setting for error code in memory (Error code Initialization is possible with error code initialization and main unit initialization.)	No display	 Displayed is lef
F01	Drive hardware error	Display appears when drive unit error is detected. The event is saved in memory.	No display	 Displayed is lef
F12	Initialization error when main microprocessor is started up for program recording	Display appears when initialization error is detected after starting up main microprocessor for program recording. The event is saved in memory. The power is turned off when detecting.	No display	 Displayed is lef
UNSUPPORT	Unsupported disc error	*An unsupported format disc was played, although the drive starts normally. *The data format is not supported, although the media type is supported. *Exceptionally incase of the disc is dirty.	“This disc is incompatible.”	 Display for 5 se
NO READ	Disc read error	*A disc is flawed or dirty. *A poor quality failed to start. *The track information could not be read.	“Cannot read. Please check the disc.”	
HARD ERR	Drive error	The drive detected a hard error.	“DVD drive error.”	Display for 5 se
SELF CHECK	Restoration operation	Since the power cord fell out during a power failure or operation, it is under restoration operation. *It will OK, if a display disappears automatically. If a display does not disappear, thereis the possibility that defective Digital P.C.B. / RAM drive.	No display	
Full Program	16 programs are already set.	16 programs are already set.	No display	

10.2. Special Modes Setting

Item		FL display	Key opera
Mode name	Description		Front K
TEST Mode	*All the main unit's parameters (include tuner) are initialized.	TEST L1	Press [SKIP (RE SLIP] and [OPEN keys simultaneo five seconds wh is off.
Service Mode	Setting every kind of modes for servicing. *Details are described in “10.3. Service Mode ”.	SERVICE MODE	When the power press [STOP], [T and [OPEN/CLO simultaneously seconds.
Rating password	The audiovisual level setting password is initialized to “Level 8”.	INIT	Open the tray, a [SKIP (REV)] and (FWD)] simultan five seconds.
Forced disc eject	Removing a disc that cannot be ejected. The tray will open and unit will shift to P-off mode. *When Timer REC is ON or EXT-LINK is ON, execute " Forced disc eject " after releasing TimerREC or EXT-LINK. *This command is not effective during "Child lock" is ON.	The display before execution leaves. **********	When the power press [STOP] an keys simultaneo five seconds.
Forced power-off	When the power button is not effective while power is ON, turn off the power forcibly.*When Timer REC is ON or EXT-LINK is ON, execute “Forced Power-off” after releasing Timer RECor EXT-LINK. Action: The tray will open, and the power will turn off.	Display in P-off mode.	Press [Power] k than 10 seconds

Item		FL display	Key opera
Mode name	Description		Front K
Aging	Perform sequence of modes as * Aging Description shown below continually.	Display following the then mode.	When the power press [CH DOWI SLIP] and [OPEN simultaneously five seconds an than 10 seconds *The [REC MODI be set to EP or L *Whenthe unit h up because of p keys for over 10 once turn off the and re-execute t command. "When releasing mode, press [PC
Demonstration lock/unlock	Ejection of the disc is prohibited. The lock setting is effective until unlocking the tray and not released by "Main unit initialization" of service mode.	*When lock the tray. LOCK "LOCK" is displayed for 3 seconds.	When the power press [STOP] an [POWER] keys simultaneously seconds.
		*When unlock the tray. UNLOCK "UNLOCK" is displayed for 3 seconds.	When the power press [STOP] an [POWER] keys simultaneously seconds.
		*When press OPEN/ CLOSE key while the tray being locked. LOCK Display "LOCK" for 3 seconds.	Press [OPEN/CL while the tray be locked.
ATP Initialization	ATP setting is initialized, and the unit turns off automatically.	It is same with display in stop mode. **********	When the power mode), press [C [CH DOWN] simultaneously seconds.

Item		FL display	Key opera
Mode name	Description		Front K
Progressive initialization	The progressive setting is initialized to Interlace.	The display before execution leaves. **********	When the power mode), press [S [TIME SLIP] simultaneously seconds.

Aging Contents (Example):

Format→REC→Play→STOP→Play→Skip(R)→Cue
↑ ↓
Stop←Play←R-Slow←Slow←Pause←Play←Rev
*The unit repeats above sequence.

10.3. Service Modes

Service mode setting: While the power is off, press TIME SLIP, STOP and OPEN / CLOSE simultaneously for five seconds.

Item		FL display	Key opera
Mode name	Description		(Remote contr
Release Items	Item of Service Mode executing is cancelled.	SERVICE MODE	Press [0] [0] or [service mode.
Error Code Display	Last Error Code of U14/H/F held by Timer is displayed on FL. *Details are described in "10.1. Self-Diagnosis Functions".	♣□□ *♣ shows U/H/F. □□ shows number.	Press [0] [1] in s mode
ROM Version Display	Region code, MAIN firm version, TIMER firm version and DRIVE firmware versions are displayed on FL for five seconds per each version in order, but ROM version will be left displayed.	REGION* MAIN ****** TIMER****** DRIVE **** ROM * *** are version displays.	Press [0] [2] in s mode

<table>
<tr><th colspan="2">Item</th><th rowspan="2">FL display</th><th>Key opera</th></tr>
<tr><th>Mode name</th><th>Description</th><th>(Remote contr</th></tr>
<tr><td>Version Display of <u>Main Microprocessor</u></td><td colspan="3">Example of FL Display
0100SK
Version
OEM Code
0: Matsushita Electric
1: Hitachi
2: Samsung
3: DENON
Destination Code and Model Code
For Japan
SK: DMR-E55
SL: DMR-E85H
SR: DMR-E95H
SS: DMR-E300H
SU: DMR-E500H
SQ: DMR-E75V
SV: DMR-E150V
For North America/Can
/Latin America
DK: DMR-E55P/PC/PL/F
DP: DMR-E65P
DL: DMR-E85HP/HPC
DR: DMR-E95HP
DU: DMR-E500HP/HPC
DQ DMR-E75VP/VPC/VF
For Europe/Asia/
EK: DMR-E55EG/EB/EBL/EP/EE/GCS/GN/GK/GC, DMR-E53E
EP: DMR-E65EG/EB/EP/EE/GCS/GN/GK/GC
EL: DMR-E85HEG/HEB/HEP/HEE/HGCS/HGN
ER: DMR-E95HEG/HEB
EU: DMR-E500HEG/HEB/HGCS/HGN/HGK
EQ: DMR-E75VEG/VEB</td></tr>
<tr><td>Version Display of <u>Timer Microprocessor</u></td><td colspan="3">Example of FL Display
0010 DA
Version: 0.01
Bottom 2 figures of Part Number of Timer Microprocessor: M306</td></tr>
<tr><td rowspan="2">White Picture Output</td><td rowspan="2">White picture is output as component Output from AV Decoder.
*White picture
(Saturation rate : 100%)
*It is enable to switch Interlace/ Progressive by “I/Pswitch: [1] [4]”</td><td>*Initial mode is “Interlace”.
WHIT I</td><td>Press [1] [1] in s
mode.</td></tr>
<tr><td>Switch Interlace/ Progressive
WHIT P</td><td>Press [1] [4] in V
Picture Output r
*I/P are switched
alternately.</td></tr>
<tr><td rowspan="2">Magenta Picture Output</td><td rowspan="2">Magenta picture is output with Component Output from AV Decoder.
*Magenta picture
(Saturation rate: 100%)
*It is enable to switch Interlace/ Progressive by “I/Pswitch: [1] [4]”</td><td>*Initial mode is “Interlace”.
MAGE I</td><td>Press [1] [2] in s
mode.</td></tr>
<tr><td>Switch Interlace/ Progressive
MAGE P</td><td>Press [1] [4] in M
Picture Output r
*I/P are switched
alternately.</td></tr>
</table>

Item		FL display	Key opera
Mode name	Description		(Remote contr
RTSC Return in XP (A & V)	L1 input signal is encoded (XP), decoded (XP) and output decoded signal to external without DISC recording and DISC playback.	Initial mode: EE2/ Interlace/ XP/ Audio 48kHz EE2 I XP 48	Press [1] [3] in s mode.
		Switch Interlace/ Progressive EE2 P XP 48	Press [1] [4] in F Return XP mode *I/P are switched alternately.
		Audio 44.1 kHz/ 48 kHz Switch EE2 P XP 44	Press [2] [4] in F Return XP mode *48 kHz / 44.1 kH switched alterna
I/P Switch	Switch Interlace and Progressive in EE mode. *Initial setting is “Interlace”. *This command is effective during executing “White Picture Output”, “MagentaPicture Output” and “RTSC Return in XP (A & V)” modes.	Initial mode is Interlace SERVICE I Switch Interlace/ Progressive SERVICE P	Press [1] [4] in I/ mode. *I/P are switched alternately.
Audio Mute (XTMUTE)	Check whether mute is applied normally by the timer microprocessor.	TIMER MUTE	Press [2] [1] in s mode.
Audio Mute (XDMUTE)	Check whether mute is applied normally by the Digital P.C.B. (GLUE IC).	MAIN MUTE	Press [2] [2] in s mode.
Audio Pattern Output	The audio pattern stored in the internal memory is output (Lch: 1kHz/-18dB) (Rch: 400Hz/-18dB) *Audio sound clock switching operation of DAC can beconfirmed by sub command [2] [4].	Initial mode (Audio 48kHz) AUDIO 48	Press [2] [3] in s mode.
		Audio 44.1kHz/48kHz switching AUDIO 44	Press [2] [4] in A Pattern Output r *48 kHz / 44.1 kH switched alterna

Item		FL display	Key opera
Mode name	Description		(Remote contr
Laser Used Time Indiction	Check laser used time (hours) of drive.	LASER***** ● (*****) is the used time display in hour. ● Laser used time ofDVD/ CD in Playback/Recording mode is counted.	Press [4] [1] in s mode.
Delete the Laser Used Time	Laser used time stored in the memory of the unit is deleted.	CLR LASER	Press [9] [5] in s mode.

Item		FL display	Key opera
Mode name	Description		(Remote contr
RAM Drive Last Error	RAM Drive error code display. *For details about the drive error code, refer to the Service Manual for the specific RAM Drive. *Details are described in “9. Service Explorer ”.	1. Error Number is displayed for 5 seconds. NO ** 2. Time when the error has occurred is displayed for 5 seconds. YMMDDhhmmss Y: Year MM: Month DD: Day hh: Hour mm: Minute ss: Second 3. Last Drive Error (1/2) is displayed for 5 seconds. ****** 4. Last Drive Error (2/2) is displayed for 5 seconds. ******** 5. Error occurring Disc type is displayedfor 5 seconds. MEDIA****** 6. Disc Maker ID is displayed for 5 seconds. ********** 7. Factor of Drive Erroroccurring is left displayed	Press [4] [2] in s mode. Then press [0] [the past 99 erro displayed. Incase that the s cannot be identi display is black

		INFO*******	

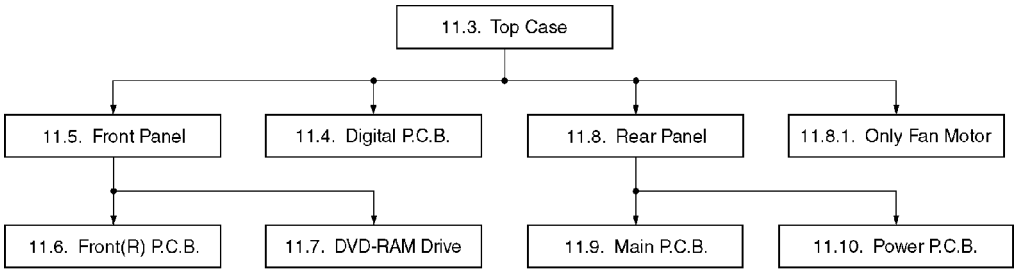
Item		FL display	Key opera
Mode name	Description		(Remote contr
Delete the Last Drive Error	Delete the Last Drive Error information stored on the DVD RAM-Drive.	CLR DRIVE	Press [9] [6] in s mode.
Turn on all FL/ LEDs	All segments of FL and all LEDs are turned on.	All segments are turned on.	Press [5] [1] in s mode.
S1 signal output	Forcibly superimpose the S1 signal (approx. 4.5V DC) on the EE chroma signal, and check the output on the S terminal.	S1 OUTPUT	Press [5] [2] in s mode.
S2 signal output	Forcibly superimpose the S2 signal (approx. 2V DC) on the EE chroma signal, and check the output on the S terminal.	S2 OUTPUT	Press [5] [3] in s mode.
Front connection inspection	Press all front keys and check the connection between Main P.C.B. and Front P.C.B.	000 ** (1) (2) (1) Each time a key is pressed, segment turned on increases one by one. (2) Total umber of keys that have been pressed.	Press [5] [4] in s mode.
Production Date Display	Display the date when the unit was produced.	PD YYYYMMDD YYY: Year MM: Month DD: Day	Press [6] [1] in s mode.
Display the accumlated working time	Display the accumulated unit's working time.	********** (Indicating unit: Second)	Press [6] [4] in s mode.

Item		FL display	Key opera
Mode name	Description		(Remote contr
Display the Error History	Display the Error History stored on the unit.	Display reason of error for 5 seconds. FTREC*** Display the time when the error has occurred for 5 seconds.. YYMMDDHHMM YY: Year MM: Month DD: Day HH: Hour MM: Minute Display the accumlated working time to occurring of the error for 5 seconds.. ********** (Indicating unit: Second)	Press [6] [5] in s mode. Then press [0] [the past 19 erro are displayed.
Delete the Error History	Delete Error History information stored on the unit.	CLR FTREC	Press [9] [7] in s mode.
Tray OPEN/ CLOSE Test	The RAM drive tray is opened and closed repeatedly.	NO******** "*" is number of open/ close cycle times.	Press [9] [1] in s mode *When releasing mode, press the button on Front more than 10 se
Error code initialization	Initialization of the last error code held by timer (Write in F00)	CLR E-CODE	Press [9] [8] in s mode.
Initialize Service	Last Drive Error, Error history and Error Codes stored on the unit are initialized to factory setting.	CLR SERV	Press [9] [9] in s mode.
Finishing service mode	Release Service Mode.	Display in STOP (E-E) mode. **********	Press power but front panel in se mode.

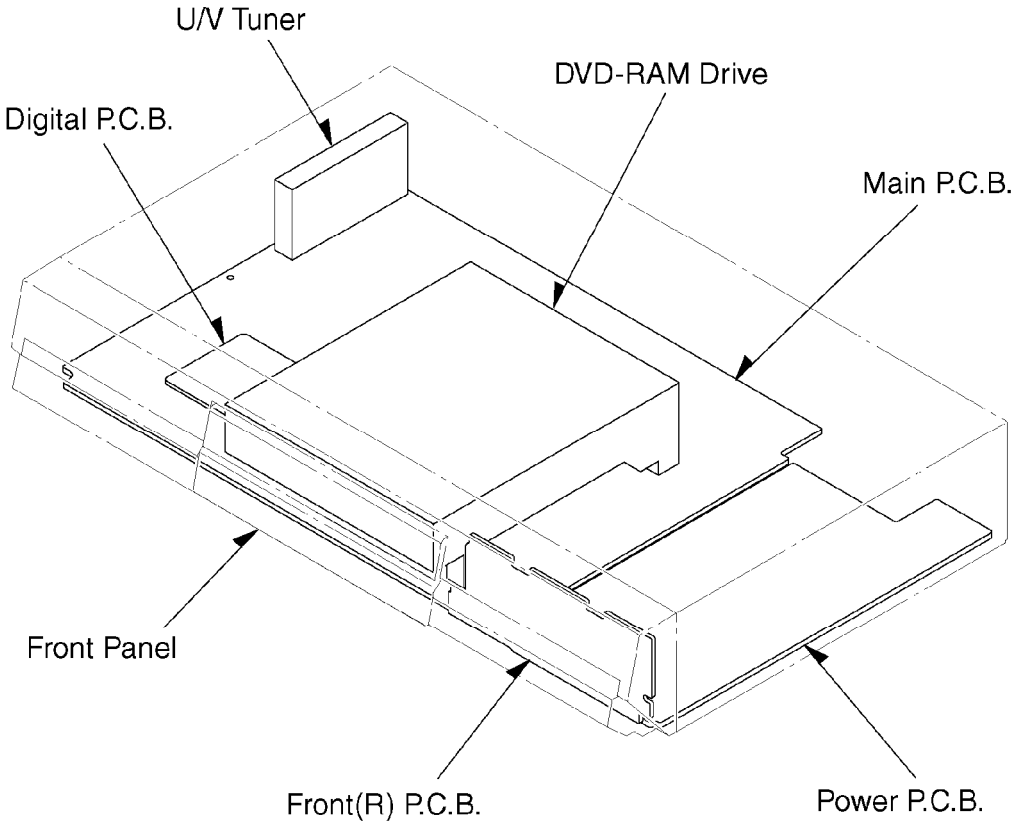
11. Assembling and Disassembling

11.1. Disassembly Flow Chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the chart below.



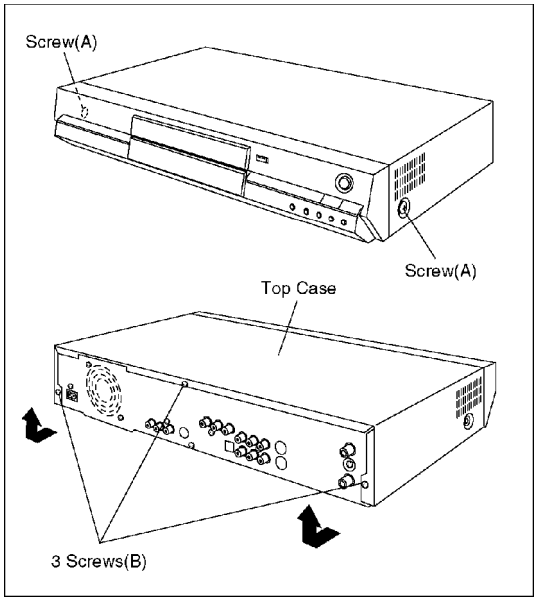
11.2. P.C.B. Positions



11.3. Top Case

1. Remove the 2 screws (A) and 3 screws (B).

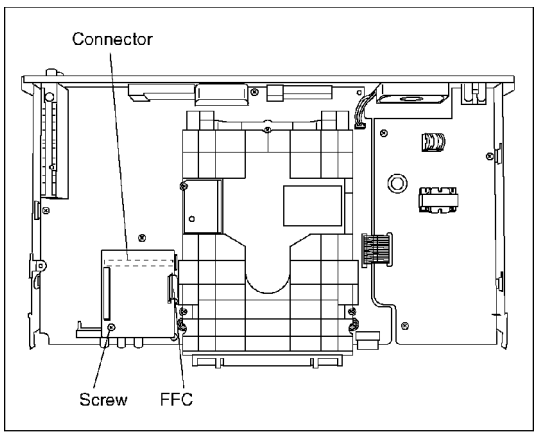
2. Open the both ends at rear side of the Top Case a little and lift the Top Case in the direction of the arrows.



11.4. Digital P.C.B.

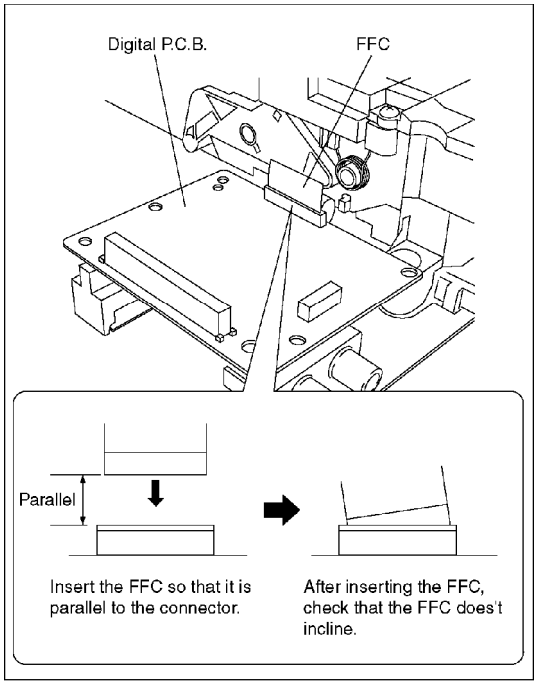
1. Remove the FFC and a Screw.

2. Lift up Digital P.C.B. slightly so to disconnect Connector to remove Digital P.C.B.



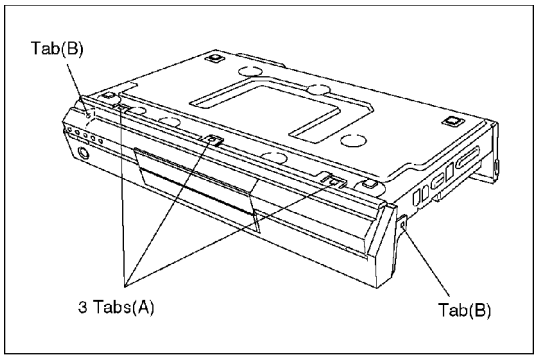
CAUTION:

When replacing Digital P.C.B., pay attention as below.

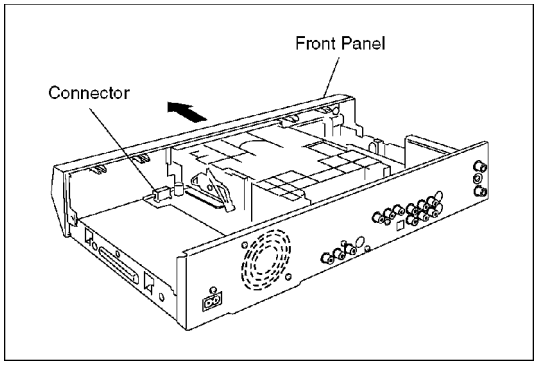

Digital P.C.B.
FFC
Parallel
Insert the FFC so that it is parallel to the connector.
After inserting the FFC, check that the FFC does't incline.

11.5. Front Panel

1. Remove 3 tabs (A) and 2 tabs (B) in this order. (The tab (A) and (B) should be removed at the same time, respectively.)

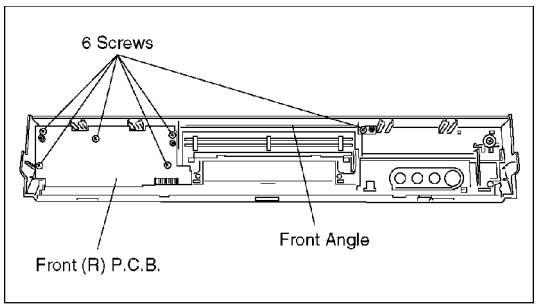


2. Move the front panel to front side straight and slowly so to remove it with Connector.



11.6. Front (R) P.C.B.

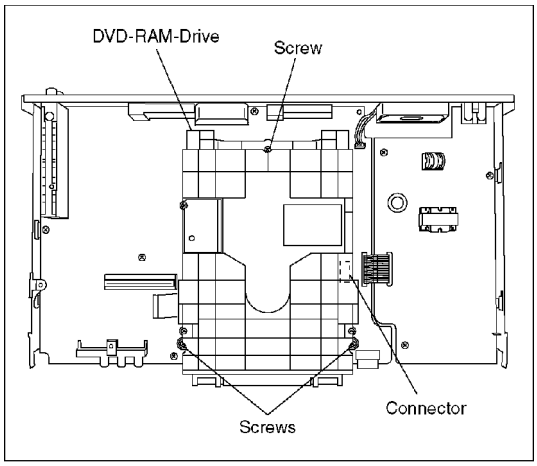
1. Remove 6 screws and Front Angle.



11.7. DVD-RAM Drive

1. Remove 3 Screws.

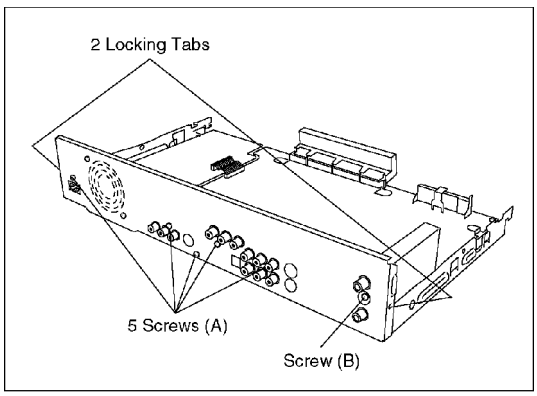
2. Pull out DVD-RAM Drive vertically so to remove it with Connector.



11.8. Rear Panel

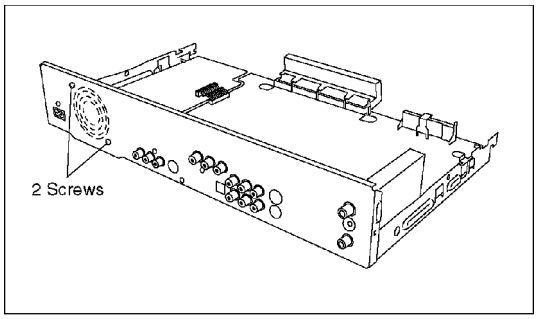
1. Remove the 5 screws (A) and screw (B).

2. Unlock 2 Locking Tabs to remove Rear Panel.

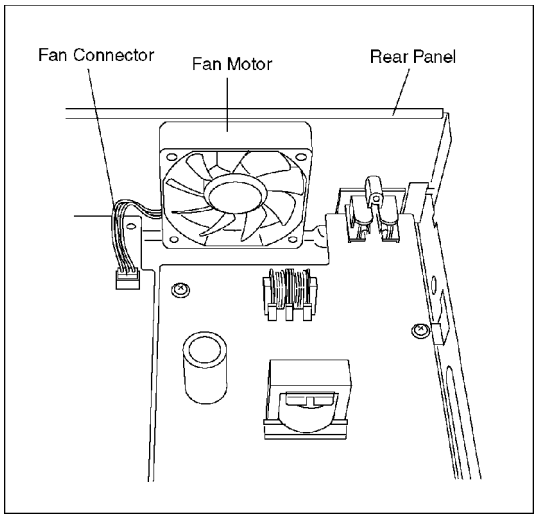


11.8.1. Only Fan Motor

1. Remove the 2 screws.

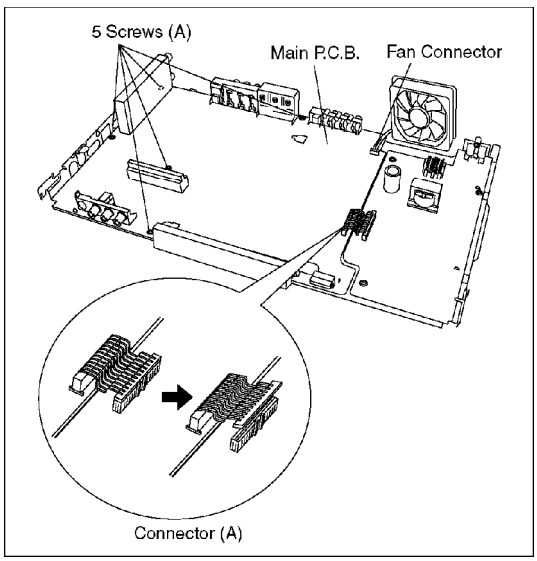


2. Remove Fan Connector to remove Fan Motor.

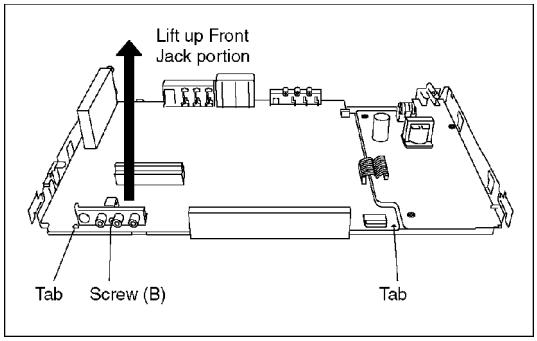


11.9. Main P.C.B.

1. Remove the 5 screws (A), Connector (A) and Fan Connector.

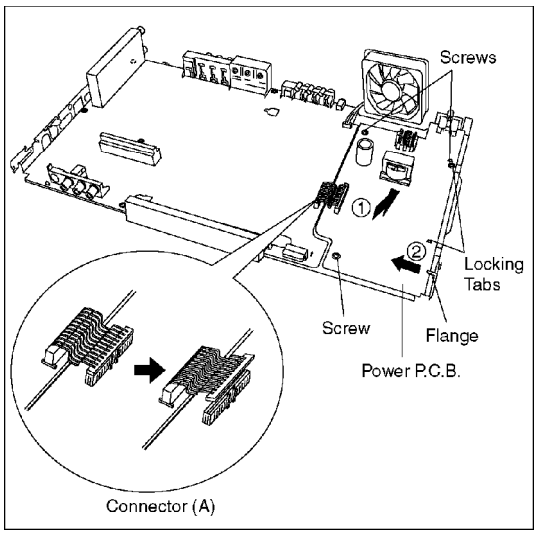


2. Remove a Screw (B) and lift up Front Jack portion of Main P.C.B. slightly so to unlock Tab to remove Main P.C.B..



11.10. Power P.C.B.

1. Remove 3 Screws and Connector (A).
2. Lift up Power P.C.B. a little so to unlock 2 Tabs and slide Power P.C.B. so to unlock Flange to remove Power P.C.B.

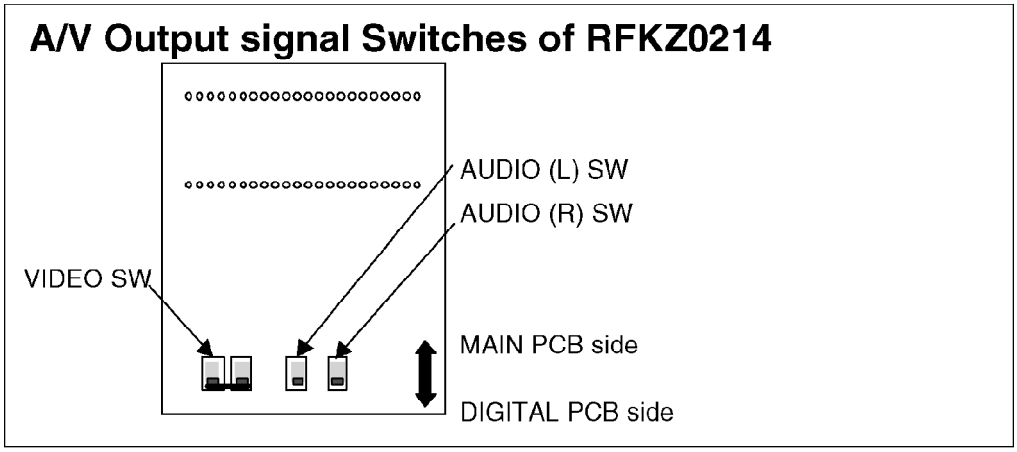


12. Service Fixture and Tools

Part Number	Description	Compatibilit
RFKZ0125	Extension FFC (Digital P.C.B. - DVD-RAM Drive / 40 Pin)	Same as E50 series
RFKZ0168	Extension Cable (Main P.C.B. - Fan / 3 Pin)	Same as E50 series
RFKZ0197	Extension Cable (Main P.C.B. - DVD-RAM Drive / 8 Pin)	New
RFKZ0214	Extension Cable (MainP.C.B. - Digital P.C.B. / 88 Pin)	New
RFKZ0215	Extension Cable (MainP.C.B. - Front (R) P.C.B. / 12 Pin)	New
RFKZ0216	Extension Cable (MainP.C.B. - Power P.C.B. / 23 Pin)	New

NOTE:

Extension Cable RFKZ0214 has A/V Output Signal switches.
Output signals can be switched from MAIN PCB side or DIGITAL PCB side.
When check MAIN PCB, turn switches to MAIN PCB side.
When check DIGITAL PCB, turn switches to DIGITAL P.C.B. side.



13. Service Positions

Note:
For description of the disassembling procedure, see the section 11.

13.1. Checking and Repairing of Power P.C.B.

1. Top Case

- Remove 2 Screws (A) on side
- Remove 3 rear Screws (B) on rear
- Remove Top Case

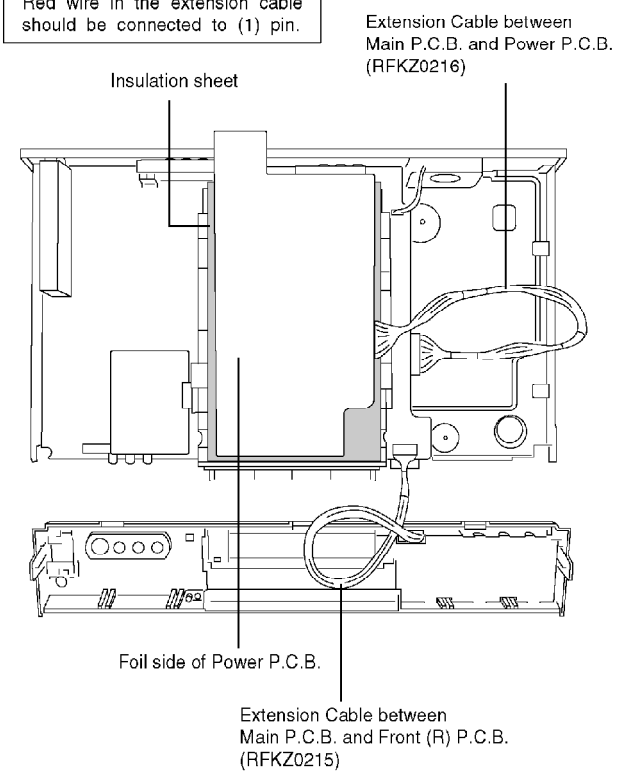
2. Front Panel

- Unlock 2 Locking Tabs on side
- Unlock 3 Locking Tabs on bottom
- Remove Front Panel

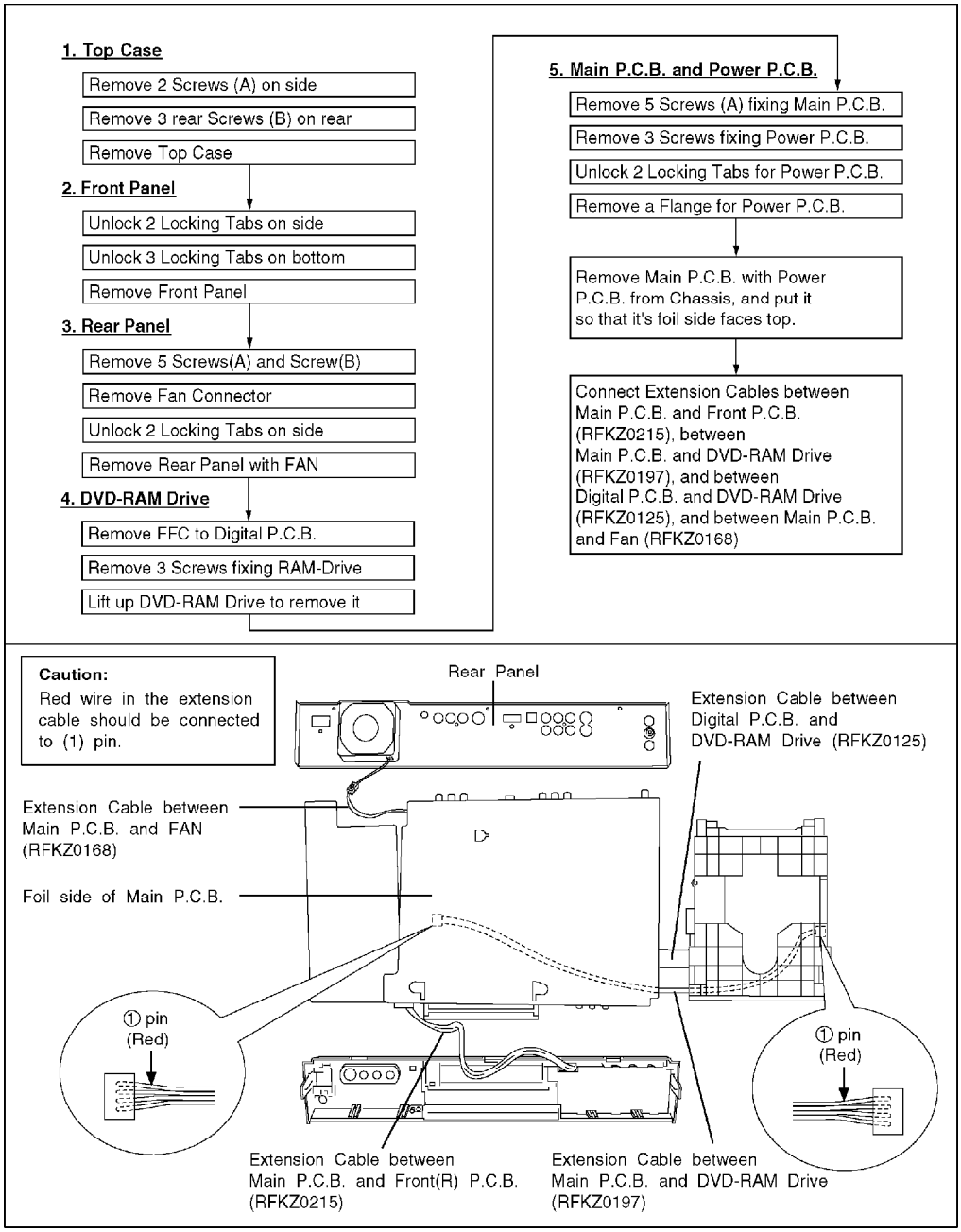
3. Power P.C.B.

- Remove 1 Screw for AC Inlet fixing
- Remove 3 Screws fixing Power P.C.B.
- Remove Connector to Main P.C.B.
- Unlock 2 Locking Tabs and a Flange
- Remove Power P.C.B.
- Connect Extension Cables between Main P.C.B. and Power P.C.B. (RFKZ0216), and between Main P.C.B. and Front (R) P.C.B. (RFKZ0215)
- Put Power P.C.B. on insulation sheet so that it's foil side faces top.

Caution:
Red wire in the extension cable should be connected to (1) pin.


Extension Cable between Main P.C.B. and Power P.C.B. (RFKZ0216)
Insulation sheet
Foil side of Power P.C.B.
Extension Cable between Main P.C.B. and Front (R) P.C.B. (RFKZ0215)

13.2. Checking and Repairing of Main P.C.B.


1. Top Case
Remove 2 Screws (A) on side
Remove 3 rear Screws (B) on rear
Remove Top Case
2. Front Panel
Unlock 2 Locking Tabs on side
Unlock 3 Locking Tabs on bottom
Remove Front Panel
3. Rear Panel
Remove 5 Screws(A) and Screw(B)
Remove Fan Connector
Unlock 2 Locking Tabs on side
Remove Rear Panel with FAN
4. DVD-RAM Drive
Remove FFC to Digital P.C.B.
Remove 3 Screws fixing RAM-Drive
Lift up DVD-RAM Drive to remove it
5. Main P.C.B. and Power P.C.B.
Remove 5 Screws (A) fixing Main P.C.B.
Remove 3 Screws fixing Power P.C.B.
Unlock 2 Locking Tabs for Power P.C.B.
Remove a Flange for Power P.C.B.
Remove Main P.C.B. with Power P.C.B. from Chassis, and put it so that it's foil side faces top.
Connect Extension Cables between Main P.C.B. and Front P.C.B. (RFKZ0215), between Main P.C.B. and DVD-RAM Drive (RFKZ0197), and between Digital P.C.B. and DVD-RAM Drive (RFKZ0125), and between Main P.C.B. and Fan (RFKZ0168)
Caution:
Red wire in the extension cable should be connected to (1) pin.
Rear Panel
Extension Cable between Digital P.C.B. and DVD-RAM Drive (RFKZ0125)
Extension Cable between Main P.C.B. and FAN (RFKZ0168)
Foil side of Main P.C.B.
① pin (Red)
① pin (Red)
Extension Cable between Main P.C.B. and Front(R) P.C.B. (RFKZ0215)
Extension Cable between Main P.C.B. and DVD-RAM Drive (RFKZ0197)

13.3. Checking and Repairing of Digital P.C.B.

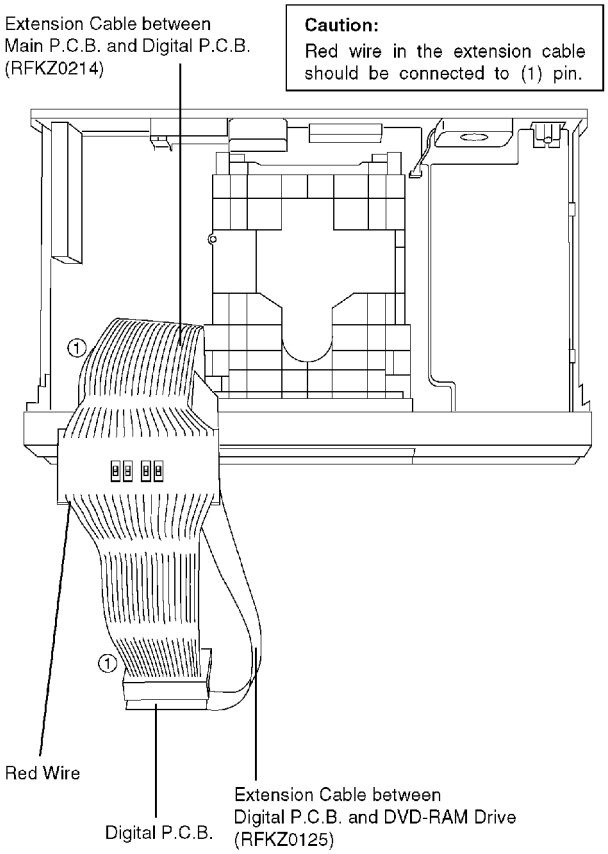
1. Top Case

- Remove 2 Screws (A) on side
- Remove 3 rear Screws (B) on rear
- Remove Top Case

2. Digital P.C.B.

- Remove FFC to RAM-Drive
- Remove a Screw fixing Digital P.C.B.
- Lift up Digital P.C.B. to remove it

Connect Extension Cables between Main P.C.B. and Digital P.C.B. (RFKZ0214), and between Digital P.C.B. and DVD-RAM Drive (RFKZ0125).



13.4. Checking and Repairing of DVD-RAM Drive

1. Top Case

- Remove 2 Screws (A) on side
- Remove 3 rear Screws (B).on rear
- Remove Top Case

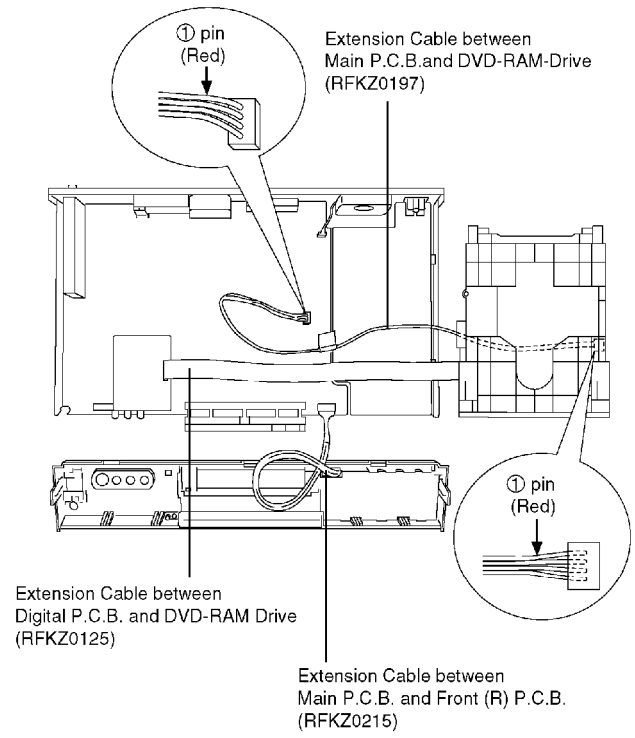
2. Front Panel

- Unlock 2 Locking Tabs on side
- Unlock 3 Locking Tabs on bottom
- Remove Front Panel

3. DVD-RAM Drive

- Remove 3 Screws fixing RAM Drive
- Remove FFC to Digital P.C.B.
- Lift up DVD-RAM Drive to remove it

Connect Extension Cables between Main P.C.B. and DVD-RAM Drive (RFKZ0197), between Digital P.C.B. and DVD-RAM Drive (RFKZ0125), and between Main P.C.B. and Front (R) P.C.B. (RFKZ0215).



14. Adjustment Procedures

14.1. After replacing the RAM Drive with new one

After replacing of RAM drive unit, TEST mode is not necessary. Please confirm operation for RAM drive

Caution:

In this case, all parameters are initialized.

14.2. When the unit does not operate normally after replacing the Timer Microprocessor with new one

in order to transmit the

Step	Operation	Descriptions
1	While power is ON, short IC7503-1 pin (RESET) and the GND.	“RESET (L)” is transmitted to the terminal of Timer Microprocesso 80 pin), then the unit operates nc

15. Standard Inspection Specifications after Making Repairs

After making repairs, we recommend performing the following inspection, to check normal operation.

No.	Procedure	Item to Check
1	Turn on the power, and confirm items pointed out.	Items pointed out should reappear.
2	Insert RAM disc.	The Panasonic RAM disc should be recog
3	Enter the EE (TU IN / AV IN - AV OUT) mode.	No abnormality should be seen in the pict sound or operation.
4	Perform auto recording and playback for one minute using the RAM disc.	No abnormality should be seen in the pict sound or operation.
5	If a problem is caused by a VCD, DVD-R, DVD-Video, Audio-CD, or MP3, playback the test disc.	No abnormality should be seen in the pict sound or operation.
6	After checking and making repairs, upgrade the firmware to the latest version.	Make sure that [FIRM_SUCCESS] appears FL displays. *[UNSUPPORT] display means the unit is updated to newest same version. Then ve is not necessary.
7	Transfer [9][9] in the service mode setting, and initialize the service settings (return various settings and error information to their default values. The laser time is not included in this initialization).	Make sure that [CLR SERV] appears in the display. After checking it, turn the power off.
8	When replacing of RAM drive, transfer [9] [5] in the service mode setting to delete Laser used time.	Make sure that [CLR LASER] appears in th display. After that, turn power off.

Use the following checklist to establish the judgement criteria for the picture and sound.

Item	Contents	Check	Item	Contents
Picture	Block noise		Sound	Distorted sound
	Crosscut noise			Noise (static, background noise, etc.)
	Dot noise			The sound level is too low.
	Picture disruption			The sound level is too high.
	Not bright enough			The sound level changes.
	Too bright			
	Flickering color			
	Color fading			

16. Voltage and Waveform Chart

Note)

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.
Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

16.1. Power P.C.B.

16.2. Main P.C.B.

16.3. Front (R) P.C.B.

16.4. P9001 Connector

16.5. P9001 Waveform

17. Abbreviations

INITIAL/LOGO		ABBREVIATIONS
A	A0~UP	ADDRESS
	ACLK	AUDIO CLOCK
	AD0~UP	ADDRESS BUS
	ADATA	AUDIO PES PACKET DATA
	ALE	ADDRESS LATCH ENABLE
	AMUTE	AUDIO MUTE
	AREQ	AUDIO PES PACKET REQUEST
	ARF	AUDIO RF
	ASI	SERVO AMP INVERTED INPUT
	ASO	SERVO AMPOUTPUT
	ASYNC	AUDIO WORD DISTINCTION SYNC
B	BCK	BIT CLOCK (PCM)
	BCKIN	BIT CLOCK INPUT
	BDO	BLACK DROP OUT
	BLKCK	SUB CODE BLOCK CLOCK
	BOTTOM	CAP. FOR BOTTOM HOLD
	BYP	BYPATH
	BYTCK	BYTE CLOCK
C	CAV	CONSTANT ANGULAR VELOCITY
	CBDO	CAP. BLACK DROP OUT
	CD	COMPACT DISC
	CDSCK	CD SERIAL DATA CLOCK
	CDSRDATA	CD SERIAL DATA
	CDRF	CD RF (EFM) SIGNAL
	CDV	COMPACT DISC-VIDEO
	CHNDATA	CHANNEL DATA
	CKSL	SYSTEM CLOCKSELECT
	CLV	CONSTANT LINEAR VELOCITY
	COFTR	CAP. OFF TRACK
	CPA	CPU ADDRESS
	CPCS	CPU CHIP SELECT
	CPDT	CPU DATA
	CPUADR	CPU ADDRESS LATCH
	CPUADT	CPU ADDRESS DATA BUS
	CPUIRQ	CPU INTERRUPT REQUEST
	CPRD	CPU READ ENABLE
	CPWR	CPU WRITE ENABLE
	CS	CHIPSELECT
	CSYNCIN	COMPOSITE SYNC IN
	CSYNCOUT	COMPOSITE SYNC OUT

INITIAL/LOGO		ABBREVIATIONS
D	DACCK	D/A CONVERTER CLOCK
	DEEMP	DEEMPHASIS BIT ON/OFF
	DEMPH	DEEMPHASIS SWITCHING
	DIG0~UP	FL DIGIT OUTPUT
	DIN	DATA INPUT
	DMSRCK	DM SERIAL DATA READ CLOCK
	DMUTE	DIGITAL MUTE CONTROL
	DO	DROP OUT
	DOUT0~UP	DATAOUTPUT
	DRF	DATA SLICE RF (BIAS)
	DRPOUT	DROP OUT SIGNAL
	DREQ	DATA REQUEST
	DRESP	DATA RESPONSE
	DSC	DIGITAL SERVO CONTROLLER
	DSLF	DATA SLICE LOOP FILTER
	DVD	DIGITAL VIDEO DISC

INITIAL/LOGO		ABBREVIATIONS
E	EC	ERROR TORQUE CONTROL
	ECR	ERROR TORQUE CONTROL REFERENCE
	ENCSEL	ENCODER SELECT
	ETMCLK	EXTERNAL M CLOCK (81MHz/ 40.5MHz)
	ETSCLK	EXTERNAL S CLOCK (54MHz)
F	FBAL	FOCUS BALANCE
	FCLK	FRAME CLOCK
	FE	FOCUS ERROR
	FFI	FOCUS ERROR AMP INVERTED INPUT
	FEO	FOCUS ERROR AMP OUTPUT
	FG	FREQUENCY GENERATOR
	FSC	FREQUENCY SUB CARRIER
	FSCK	FS (384 OVER SAMPLING) CLOCK
G	GND	COMMON GROUNDING (EARTH)
H	HA0~UP	HOST ADDRESS
	HD0~UP	HOST DATA
	HINT	HOST INTERRUPT
	HRXW	HOST READ/WRITE

INITIAL/LOGO		ABBREVIATIONS
I	IECOUT	IEC958 FORMAT DATA OUTPUT
	IPFRAG	
	IREF	INTERPOLATION FLAG
	ISEL	I (CURRENT) REFERENCE INTERFACE MODE SELECT
L	LDON	LASER DIODE CONTROL
	LPC	LASER POWER CONTROL
	LRCK	L CH/R CH DISTINCTION CLOCK
M	MA0~UP	MEMORY ADDRESS
	MCK	MEMORY CLOCK
	MCKI	MEMORY CLOCK INPUT
	MCLK	MEMORY SERIAL COMMAND CLOCK
	MDATA	MEMORY SERIAL COMMAND DATA
	MDQ0~UP	MEMORY DATA INPUT/OUTPUT
	MDQM	MEMORY DATA I/O MASK
	MLD	MEMORYSERIAL COMMAND LOAD
	MPEG	MOVING PICTURE EXPERTS GROUP
O	ODC	OPTICAL DISC CONTROLLER
	OFTR	OFF TRACKING
	OSCI	OSCILLATOR INPUT
	OSCO	OSCILLATOR OUTPUT
	OSD	ON SCREEN DISPLAY
P	P1~UP	PORT
	PCD	CD TRACKING PHASE DIFFERENCE
	PCK	PLL CLOCK
	PDVD	DVD TRACKING PHASE DIFFERENCE
	PEAK	CAP. FOR PEAK HOLD
	PLLCLK /	CHANNEL PLL CLOCK
	PLLOK	PLL LOCK
	PWMCTL	PWM OUTPUT CONTROL
	PWMDA	PULSE WAVE MOTOR DRIVEA
	PWMOA, B	PULSE WAVE MOTOR OUT A, B

INITIAL/LOGO		ABBREVIATIONS
R	RE	READ ENABLE
	RFENV	RF ENVELOPE
	RFO	RF PHASE DIFFERENCE
	RS	OUTPUT
	RSEL	(CD-ROM) REGISTER SELECT
	RST	RF POLARITY SELECT
	RSV	RESET
		RESERVE
S	SBI0, 1	SERIAL DATA INPUT
	SBO0	SERIAL DATA OUTPUT
	SBT0, 1	SERIAL CLOCK
	SCK	SERIAL DATA CLOCK
	SCKR	AUDIO SERIAL CLOCK
	SCL	RECEIVER
	SCLK	SERIAL CLOCK
	SDA	SERIAL CLOCK
	SEG0~UP	SERIAL DATA
	SELCLK	FL SEGMENT OUTPUT
	SEN	SELECTCLOCK
	SIN1, 2	SERIAL PORT ENABLE
	SOUT1, 2	SERIAL DATA IN
	SPDI	SERIAL DATA OUT
	SPDO	SERIAL PORT DATA INPUT
	SPEN	SERIAL PORT DATA OUTPUT
	SPRCLK	SERIAL PORT R/W ENABLE
	SPWCLK	SERIAL PORT READ CLOCK
	SQCK	SERIAL PORT WRITE CLOCK
	SQCX	SUB CODE Q CLOCK
	SRDATA	SUBCODE Q DATA READ
	SRMADR	CLOCK
	SRMDT0~7	SERIAL DATA
		SRAM ADDRESS BUS
	SS	SRAM DATA BUS 0~7
	STAT	START/STOP
	STCLK	STATUS
	STD0~UP	STREAM DATA CLOCK
	STENABLE	STREAM DATA
		STREAM DATA INPUT ENABLE
	STSEL	STREAM DATA POLARITY
	STVALID	SELECT
	SUBC	STREAM DATAVALIDITY
	SBCK	SUB CODE SERIAL
	SUBQ	SUB CODE CLOCK
	SYSCLK	SUB CODE Q DATA
		SYSTEM CLOCK

		SYSTEM CLOCK

INITIAL/LOGO		ABBREVIATIONS
T	TE	TRACKING ERROR
	TIBAL	BALANCE CONTROL
	TID	BALANCE OUTPUT 1
	TIN	BALANCE INPUT
	TIP	BALANCE INPUT
	TIS	BALANCE OUTPUT 2
	TPSN	OP AMP INPUT
	TPSO	OP AMP OUTPUT
	TPSP	OP AMP INVERTED INPUT
	TRCRS	TRACK CROSSSIGNAL
	TRON	TRACKING ON
	TRSON	TRAVERSE SERVO ON

INITIAL/LOGO		ABBREVIATIONS
V	VBLANK	V BLANKING
	VCC	COLLECTOR POWER SUPPLY VOLTAGE
	VCDCONT	VIDEO CD CONTROL (TRACKING
	VDD	BALANCE)
	VFB	DRAIN POWER SUPPLY
	VREF	VOLTAGE
	VSS	VIDEO FEED BACK
		VOLTAGE REFERENCE
		SOURCE POWER SUPPLYVOLTAGE
W	WAIT	BUS CYCLE WAIT
	WDCK	WORD CLOCK
	WEH	WRITE ENABLE HIGH
	WSR	WORD SELECT RECEIVER

INITIAL/LOGO		ABBREVIATIONS
X	X	X' TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	XCS	X CHIP SELECT
	XCSYNC	X COMPOSITE SYNC
	XDS	X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XH INTERRUPTREQUEST
	XI	X' TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	XO	X' TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	X V-DEC CHIPSELECT
	XVDS	X V-DEC CONTROL BUS
	XVSYNCO	STROBE
		X VERTICAL SYNC OUTPUT

18. Block Diagram

18.1. Power Supply Block Diagram

18.2. Analog Video Block Diagram

18.3. Analog Audio Block Diagram

18.4. Timer Block Diagram

18.5. Digital Block Diagram

18.6. Digital Block IC Pin Terminal Chart (TC1-18)

19. Schematic Diagram

19.1. Interconnection Schematic Diagram

19.2. Main Power Schematic Diagram

19.3. Sub Power Section (Main P.C.B. (1/5)) Schematic Diagram (P)

19.4. Main Net Section (Main P.C.B. (2/5)) Schematic Diagram (M)

19.5. Video I/O Section (Main P.C.B. (3/5)) Schematic Diagram (V)

19.6. Audio Main Section (Main P.C.B. (4/5)) Schematic Diagram (A)

19.7. Timer Section (Main P.C.B. (5/5)) Schematic Diagram (T)

19.8. Glue Net Section (Digital P.C.B. (1/4)) Schematic Diagram (GN)

19.9. AV Encoder/Real Time Stream Control (RTSC) Section (Digital P.C.B. (2/4)) Schematic Diagram (EN)

19.10. AV Decoder/Main CPU Section (Digital P.C.B. (3/4)) Schematic Diagram (MC)

19.11. Audio I/O Section (Digital P.C.B. (4/4)) Schematic Diagram (AI)

19.12. Front (R) Schematic Diagram

20. Print Circuit Board

20.1. Power P.C.B.

20.2. Main P.C.B.

20.2.1. Main P.C.B. (1/4 Section)

20.2.2. Main P.C.B. (2/4 Section)

20.2.3. Main P.C.B. (3/4 Section)

20.2.4. Main P.C.B. (4/4 Section)

20.2.5. Main P.C.B. Address Information

20.3. Digital P.C.B.

20.3.1. Digital P.C.B. (Component Side)

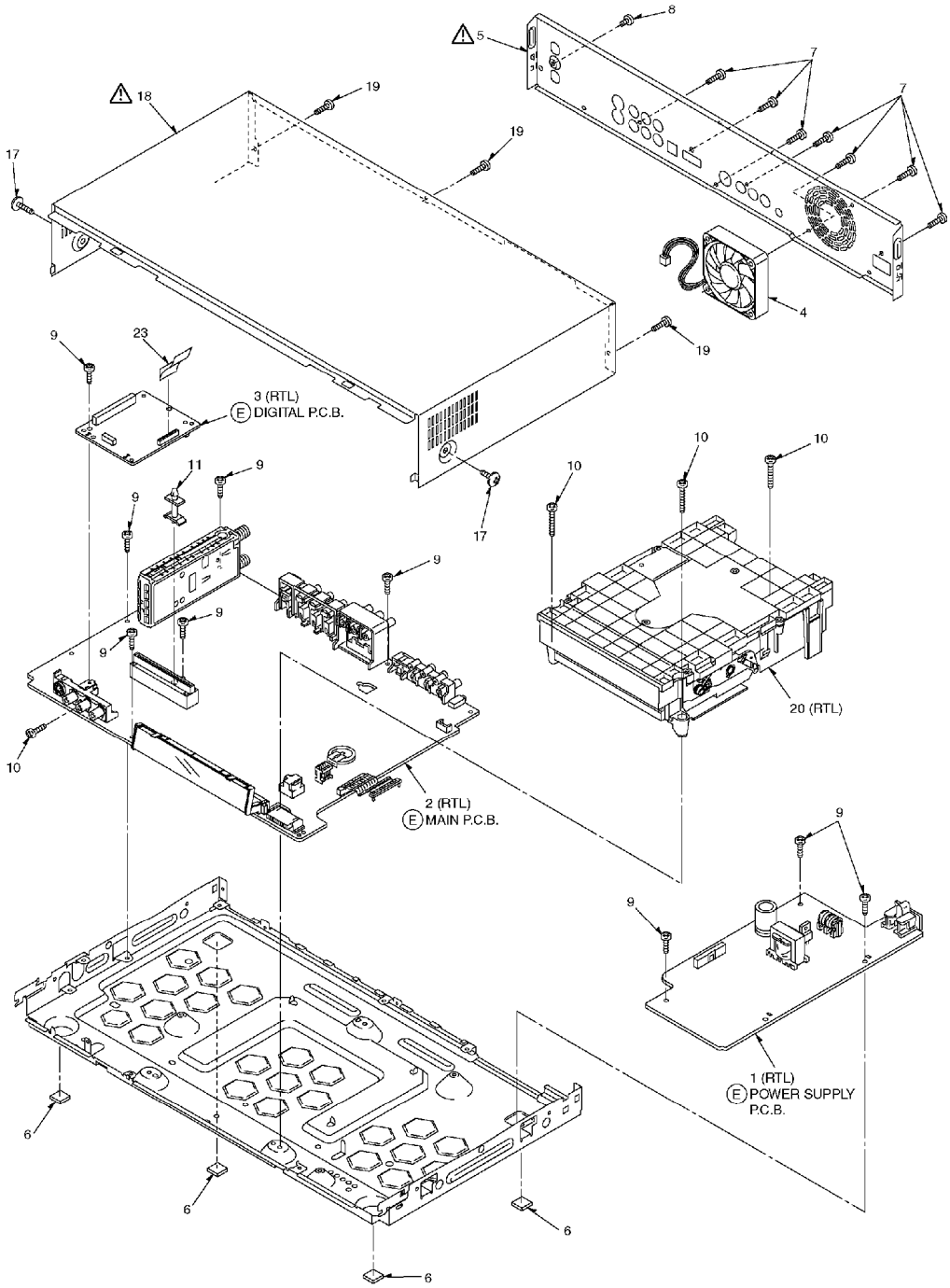
20.3.2. Digital P.C.B. (Foil Side)

20.3.3. Digital P.C.B. Address Information

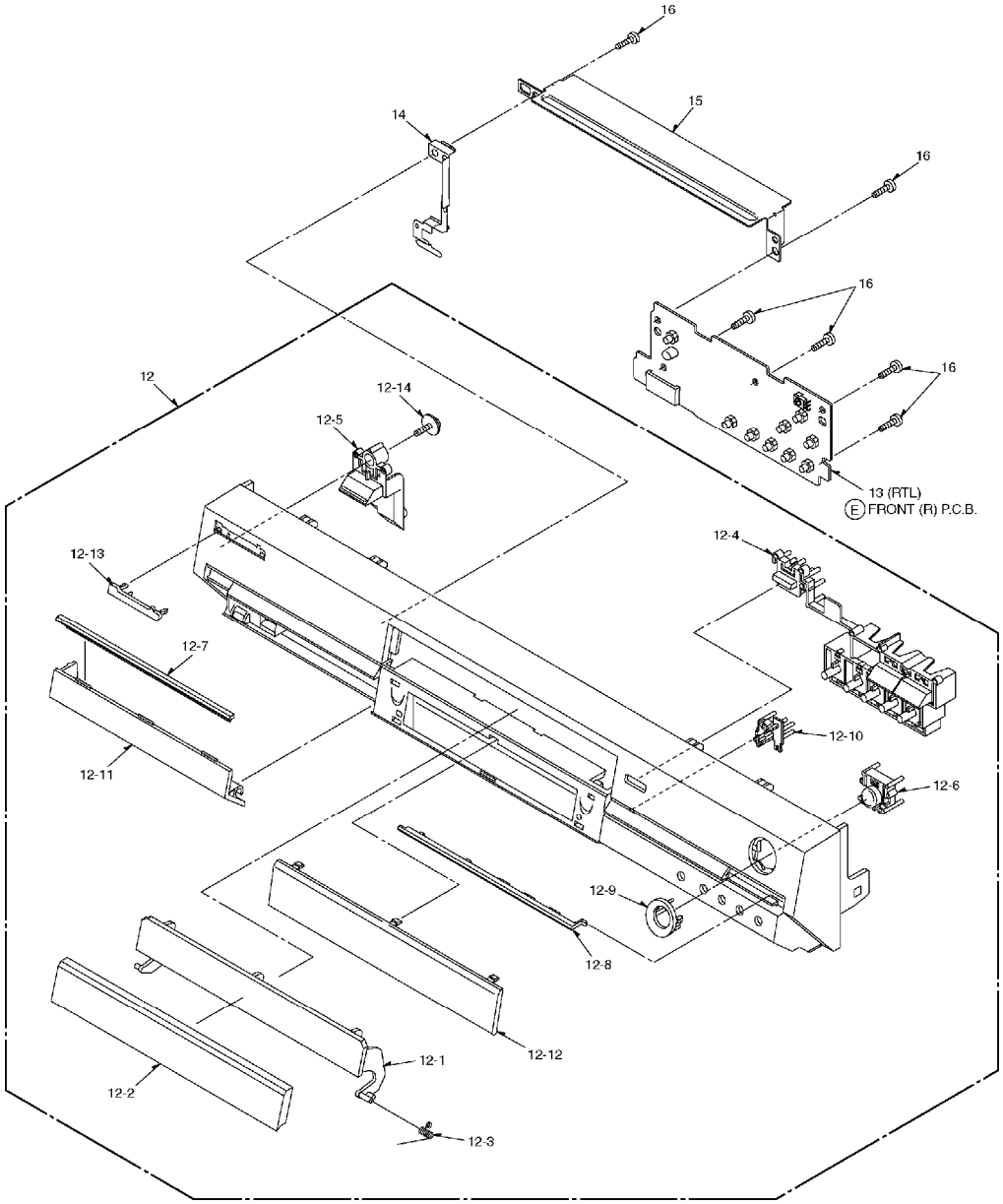
20.4. Front (R) P.C.B.

21. Exploded Views

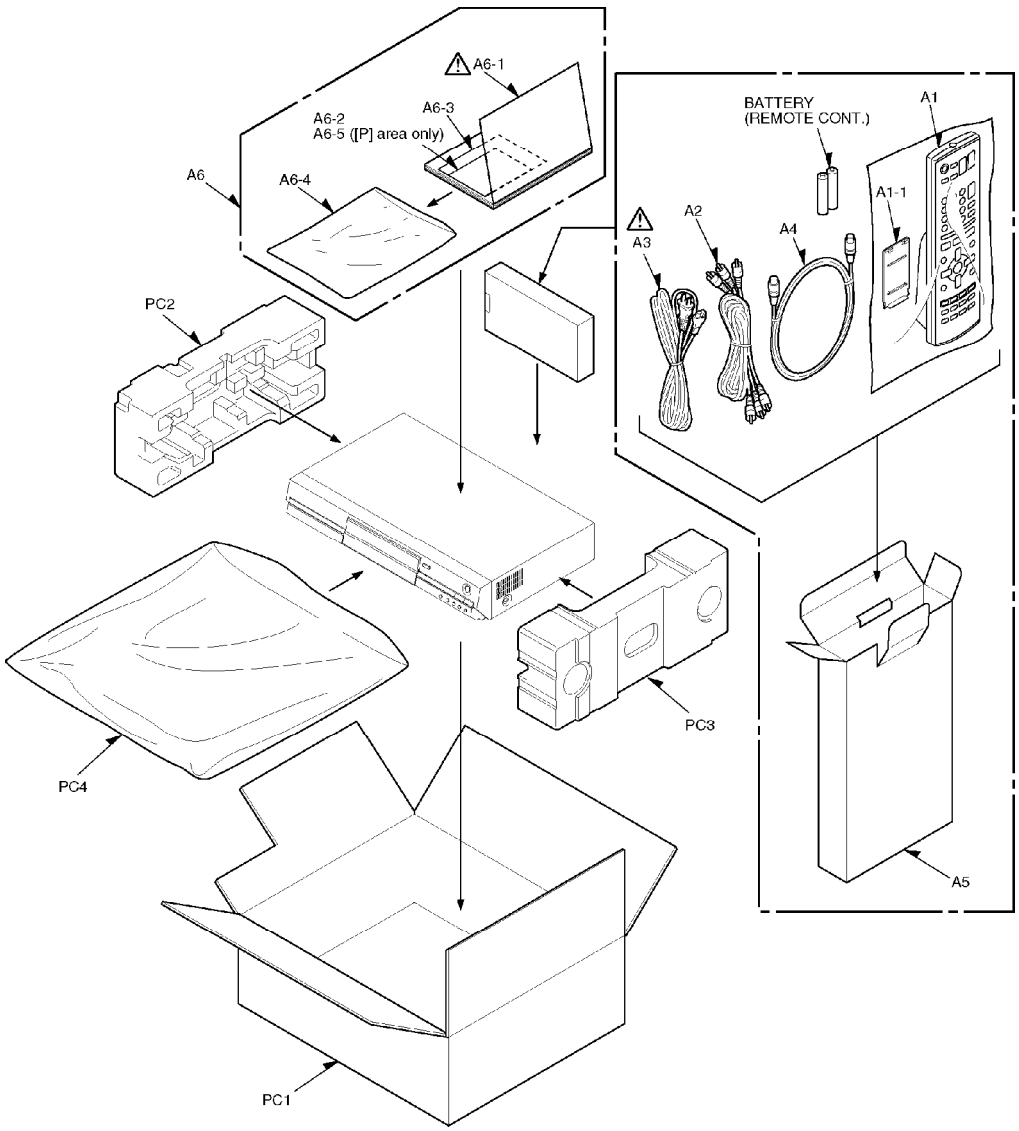
21.1. Casing Parts & Mechanism Section 1



21.2. Casing Parts & Mechanism Section 2



21.3. Packing & Accessories Section



22. Replacement Parts List

Notes:

***Important safety notice:**

Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufactures specified parts shown in the parts list.

***Warning: This product uses a laser diode. Refer to caution statements.**

***Capacity values are in microfarads (μ F) unless specified otherwise, P=Pico-farads (pF), F= Farads (F).**

***Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).**

***The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.**

***"<IA>"-"<IB>", marks in Remarks indicate languages of instruction manuals. [<IA>: English, <IB>: Canadian French] All parts aresupplied by S.P.C..**

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
■	01	CASING/ACCESSORY/PACKING		
1	VEP01950A	POWER SUPPLY P.C.B.	1	(RTL)(P)
1	VEP01950C	POWER SUPPLY P.C.B.	1	(RTL)(PC)
2	REP3662B	MAIN P.C.B.	1	(RTL)
3	REP3717B	DIGITAL P.C.B.	1	(P)
3	RFKBE55PC	DIGITAL P.C.B.	1	(PC)
4	L6FAKCCE0002	FAN MOTOR	1	
5	RGR0347B-A	REAR PANEL	1	(P) ⚠
5	RGR0347B-B	REAR PANEL	1	(PC) ⚠
6	RKA0166-T	LEG RUBBER	4	
7	VHD0690	SCREW	7	
8	XSN3+4FZ	SCREW	1	
9	RHD30111	SCREW	9	
10	RHD30115	SCREW	4	
11	VMX1922	PCB SPACER	1	
12	RYP1224A-K	FRONT PANEL ASS'Y 1	1	(K)
12	RYP1224A-S	FRONT PANEL ASS'Y 1	1	(S)
12-1	RKF0690-K	TRAY DOOR	1	
12-2	RGK1777-Q	TRAY ORNAMENT	1	
12-3	VMB3410	BLINDER SPRING	1	
12-4	RGU2290A-K	OPERATION BUTTON	1	(K)
12-4	RGU2290A-S	OPERATION BUTTON	1	(S)
12-5	RGU2289-K	POWER BUTTON	1	(K)
12-5	RGU2289-S	POWER BUTTON	1	(S)
12-6	RGU2291A-Q	REC BUTTON	1	
12-7	RGK1774-S	FRONT ORNAMENT(L)	1	
12-8	RGK1775-S	FRONT ORNAMENT(R)	1	
12-9	RGK1773-S	REC BUTTON RING	1	
12-10	RGL0658-Q	PANEL LIGHT	1	
12-11	RKF0689A-K	PANEL DOOR	1	(K)
12-11	RKF0689A-S	PANEL DOOR	1	(S)
12-12	RGK1776-Q	FL ORNAMENT	1	
12-13	VGB0560	PANASONIC BADGE	1	
12-14	RHD26016	SCREW	1	
13	REP3713A	FRONT(R) P.C.B.	1	(RTL)
14	RMC0595	EARTH PLATE	1	
15	RMA1778	FRONT ANGLE	1	
16	XTBS26+10J	SCREW	6	
17	RHD30113-K	SCREW	2	(K)
17	RHD30113	SCREW	2	(S)
18	RKM0508-K	TOP CASE	1	(K)
18	RKM0508-S	TOP CASE	1	(S)
19	VHD0690	SCREW	3	
20	VXY1794	RAM DRIVE UNIT	1	(RTL)
23	VWJ1731	FFC(42P)	1	
A1	N2QAKB000050	REMOTE CONTROL ASS'Y	1	
A1-1	BNL11M201B	BATTERY COVER	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A2	K2KA6CA00001	AV CORD	1	
A3	K2CB2CB00006	AC CORD	1	⚠
A4	VJA1125	RF COAXIAL CABLE	1	K2KZ2BA00001
A5	RPQF0220	ACCESSORY CASE	1	
A6	RQF5321	FAN BAG ASS'Y	1	(P) ⚠
A6	RQF5397	FAN BAG ASS'Y	1	(PC) ⚠
A6-1	RQT7301-P	OPERATING INSTRUCTIONS	1	<IA> ⚠
A6-1	RQT7395-C	OPERATING INSTRUCTIONS	1	<IB>(PC) ⚠
A6-2	RQCB0833	CCP SHEET	1	(P)
A6-3	RQCA1004	DISC CAUTION SHEET	1	
A6-4	RPF0378	POLYETHYLENE BAG(F.B.)	1	
A6-5	RQCC2431	DVD MEDIA SHEET	1	(P)
PC1	RPG6908	PACKING CASE	1	(P-S)
PC1	RPG6909	PACKING CASE	1	(P-K)
PC1	RPG6910	PACKING CASE	1	(PC)
PC2	RPN1682A	CUSHION (A)	1	
PC3	RPN1682B	CUSHION (B)	1	
PC4	VPF0505	POLYETHYLENE BAG(UNIT)	1	
■	02	VEP01950A/VEP01950C		(POWER SUPPLY P.C.B.)
C1120	ECQU2A104MLA	0.1U	1	⚠
C1121	ECQU2A103MLA	0.01U	1	⚠
C1125-27	ECKWNA102MEV	1000P	3	⚠
C1143	EEUED2V101E	350V 100U	1	
C1150	F2A1V5600013	35V 56U	1	
C1151	F1B3A182A009	250V 1800P	1	
C1152	ECJ2XC1H101J	16V 100P	1	
C1153	ECUM1H222KBN	50V 2200P	1	
C1154	ECUV1H102KBN	50V 1000P	1	ECJ2VB1H102K
C1200	ECQV1H104JL	50V 0.1U	1	
C1201	ECJ2VB1E473K	25V 0.047U	1	
C1202	ECJ2VB1E104K	25V 0.1U	1	
C1260,61	F2A1A6810017	10V 680U	2	
C1262	ECA1AHG221	10V 220U	1	
C1270	F2A1C6810023	16V 680U	1	
C1272,73	F2A1E2210050	25V 220U	2	
C1274	ECJ2VB1E104K	25V 0.1U	1	
C1302	ECA1AHG221	10V 220U	1	
C1400	EEUFM1E221	25V 220U	1	
C1401	F1K1C3350002	16V 3.3U	1	
C1402	ECJ2VB1H103K	50V 0.01U	1	
C1403	ECJ2XC1H331J	16V 330P	1	
C1404	ECJ2VB1H472K	25V 4700P	1	
C1405	ECUX1H681JCX	50V 680P	1	ECJ2VC1H681J
C1406	EEUFM1A681	10V 680U	1	
C1407	EEUFM1E221	25V 220U	1	
C1408,09	ECJ2VB1E104K	25V 0.1U	2	
C1410	ECJ2VB1H103K	50V 0.01U	1	
C1411	ECJ2VC1H680J	50V 68P	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1412	ECJ2VB1H472K	25V 4700P	1	
C1413	EEUFM1A681	10V 680U	1	
C1417-19	F1J0J106A014	6.3V 10U	3	
C1420	F1K1C106A062	16V 10U	1	
C1421	ECJ2VB1E104K	25V 0.1U	1	
D1110	ERZVGAD471	DIODE	1	⚠
D1140	B0EDKT000002	DIODE	1	
D1151	B0HAGM000006	DIODE	1	
D1152	MAZ4091NMF	DIODE	1	
D1154	MA2J11100L	DIODE	1	
D1155	MAZ73000BC	DIODE	1	
D1156	MA2J11100L	DIODE	1	
D1261	B0JAQE000004	DIODE	1	
D1271	B0JAQG000005	DIODE	1	
D1305	MA2Q73800L	DIODE	1	
D1400,01	MA2Q73800L	DIODE	2	
D1402	ERA15-02	DIODE	1	B0EAKM000016
F1101	K5D162BK0005	FUSE	1	⚠
IC1150	C0DACZH00004	IC	1	
IC1200	C0DAAMA00002	IC	1	
IC1270	C0DAZJH00003	IC	1	
IC1302	C0DBZHG00012	IC	1	
IC1400	C0DAAJG00007	IC	1	
IC1401	C0DBAKG00005	IC	1	
IP1400	K5H2022A0013	IC PROTECTOR	1	⚠
IP1401	K5H3022A0013	IC PROTECTOR	1	⚠
L1120	G0B100E00002	COIL 10UH	1	⚠
L1121	G0B100E00002	COIL 10UH	1	(PC) ⚠
L1260	G0A100H00014	COIL 10UH	1	
L1270	G0A100H00014	COIL 10UH	1	
L1400	G0A220G00018	COIL 22UH	1	
L1401	G0A330G00010	COIL 33UH	1	
L1402	G0A330ZA0030	COIL 33UH	1	
LB1122	J0JKB0000003	COIL	1	
LB1126	ERJ6GEY0R00V	1/8W 0	1	
LB1400	J0JHC0000012	COIL	1	
P1101	K2AB2H000004	AC INLET	1	⚠
P1102	K1KB23A00002	CONNECTOR(FEMALE)23P	1	
Q1200,01	PC123ZY2	TRANSISTOR	2	B3PBA0000078 ⚠
Q1400	B1DHDD000022	TRANSISTOR	1	
QR1200	UN2212	TRANSISTOR	1	UNR2212
QR1300-04	UNR221300L	TRANSISTOR	5	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
QR1307,08	UNR221300L	TRANSISTOR	2	
R1120	ERDS1TJ474	1W 470K	1	
R1150	ERDS2FJ6R8	1/4W 6.8	1	
R1151	ERDS2FJ562	1/4W 5.6K	1	
R1152	ERDS2FJ103	1/4W 10K	1	
R1154	ERJ6RBD562	1/10W 5.6K	1	
R1156	ER0S2CHF1802	1/4W 18K	1	
R1157	ERJ6RBD681	1/10W 680	1	
R1200	ERJ6GEYG393V	1/8W 39K	1	
R1201	ERJ6GEY0R00V	1/8W 0	1	
R1204	ERJ6GEYF472	1/8W 4.7K	1	
R1205	ERJ6GEYF473	1/8W 47K	1	
R1206	ERJ6GEYG242	1/8W 2.4K	1	
R1207	ERJ6GEYJ103V	1/8W 10K	1	
R1208	ERJ6GEYG241	1/8W 240	1	
R1209	ERJ6GEYJ102V	1/8W 1K	1	
R1210	ERJ6ENF3601	1/8W 3.6K	1	
R1211	ERJ6GEYJ472V	1/8W 4.7K	1	
R1270	ERJ6GEYJ472V	1/8W 4.7K	1	
R1301	ERJ6GEYG201	1/8W 200	1	
R1303	ERJ6ENF2202	1/8W 2.2K	1	
R1304	ERJ6RBD273	1/10W 27K	1	
R1305	ERJ6GEYJ472V	1/8W 4.7K	1	
R1309	ERJ6GEYJ103V	1/8W 10K	1	
R1310	ERJ6GEY0R00V	1/8W 0	1	
R1313	ERJ6GEYJ103V	1/8W 10K	1	
R1401	ERJ6GEYJ104V	1/8W 100K	1	
R1402	ERJ6RBD302	1/10W 3K	1	
R1404	ERJ6RBD102	1/10W 1K	1	
R1405	ERJ6GEYJ513V	1/8W 51K	1	
R1406	D1BFR039A010	1/10W 39	1	
R1407	ERJ6GEY0R00V	1/8W 0	1	
R1409	ERJ6RBD123	1/10W 12K	1	
R1410	ERJ6ENF3300	1/8W 3.3K	1	ERJ6RBD331V
R1411	ERJ6RBD822V	1/10W 8.2K	1	
T1150	ETS28AZ1H5AD	TRANSFORMER	1	⚠
W501	ERJ6GEY0R00V	1/8W 0	1	
ZA1103,04	K3GD9BB00001	FUSE HOLDER	2	
■	03	REP3662B		(MAIN P.C.B.)
B7501	CR2354-1GUF	LITHIUM BATTERY	1	
C1503	F1H1A105A028	10V 1U	1	
C1505	F2A1A470A388	10V 47U	1	
C1512	ECJ1VB0J105K	6.3V 1U	1	
C1513	F1H1A105A028	10V 1U	1	
C1514	ECJ1VB0J105K	6.3V 1U	1	
C1515	ECJ1VB1C104K	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1516	F1H1A105A028	10V 1U	1	
C1518	F2A1A470A388	10V 47U	1	
C1519	ECJ1VB1C104K	16V 0.1U	1	
C1520	F1H1A105A028	10V 1U	1	
C1521	ECJ1VB0J105K	6.3V 1U	1	
C1522	ECJ1VC1H331J	50V 330P	1	
C1523	F1H1A105A028	10V 1U	1	
C1524	F2A1A470A388	10V 47U	1	
C1527,28	ECJ1VB0J105K	6.3V 1U	2	
C1531	F2A1A470A388	10V 47U	1	
C1533,34	ECJ1VB0J105K	6.3V 1U	2	
C1537	EEUFC1E101S	25V 100U	1	
C1539	F2A0J102A256	6.3V 1000U	1	
C1540	F2A1E4700048	25V 47U	1	
C1541	F2A1A471A211	10V 470U	1	
C1543	F2A1E221A210	25V 220U	1	
C3001	ECJ1VC1H561J	50V 560P	1	
C3005	ECJ1VB1C333K	16V 0.033U	1	
C3006-08	ECJ1VB1C104K	16V 0.1U	3	
C3010-17	ECJ1VB1H103K	50V 0.01U	8	
C3018	ECEA0JKS470	6.3V 47U	1	
C3019-21	ECJ1VB1H103K	50V 0.01U	3	
C3022	ECA0JM102	6.3V 1000U	1	
C3023	ECEA0JKS101	6.3V 100U	1	
C3024	ECA0JM102	6.3V 1000U	1	
C3025	ECEA0JKS101	6.3V 100U	1	
C3026	ECA0JM102	6.3V 1000U	1	
C3027,28	ECEA0JKS101	6.3V 100U	2	
C3029	ECA0JM102	6.3V 1000U	1	
C3030	ECEA0JKS101	6.3V 100U	1	
C3031	ECA0JM102	6.3V 1000U	1	
C3032,33	ECJ1VB0J105K	6.3V 1U	2	
C3034	ECJ1VB1H103K	50V 0.01U	1	
C3035,36	ECEA0JKS220	6.3V 22U	2	
C3037	ECJ1VB1C104K	16V 0.1U	1	
C3038	ECEA0JKN470	6.3V 47U	1	
C3039	ECJ1VB1C104K	16V 0.1U	1	
C3040	ECJ1VB1H103K	50V 0.01U	1	
C3041	ECJ1VB1C104K	16V 0.1U	1	
C3042	ECEA0JKN470	6.3V 47U	1	
C3043	ECJ1VB1H103K	50V 0.01U	1	
C3044	ECEA0JKS470	6.3V 47U	1	
C3046,47	ECJ1VB1H103K	50V 0.01U	2	
C3901	ECJ1VB1C104K	16V 0.1U	1	
C3902	ECJ1VB1H103K	50V 0.01U	1	
C3909	ECJ1VB1H103K	50V 0.01U	1	
C3910,11	ECJ1VB1C104K	16V 0.1U	2	
C3912	ECJ1VB1H103K	50V 0.01U	1	
C3917	ECJ1VB1H103K	50V 0.01U	1	
C4003-06	F2A1H1R0A236	50V 1U	4	
C4009,10	ECJ1VF1C104Z	16V 0.1U	2	
C4011	ECJ2VB1E104K	25V 0.1U	1	
C4013,14	F2A1H1R0A236	50V 1U	2	
C4016	F2A1C221A019	16V 220U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4017	ECUV1H820JCV	50V 82P	1	ECJ1VC1H820J
C4019	ECUV1H820JCV	50V 82P	1	ECJ1VC1H820J
C4022	ECJ1VB1C104K	16V 0.1U	1	
C4023	F2A1C471A236	16V 470U	1	
C4024,25	F2A1E470A205	25V 47U	2	
C4026,27	F2A1H1R0A236	50V 1U	2	
C4028,29	F2A1C100A019	16V 10U	2	
C4036	F2A1E470A205	25V 47U	1	
C4037	F2A1C221A019	16V 220U	1	
C4038	F2A1E470A205	25V 47U	1	
C4039,40	ECJ2VC1H102J	50V 1000P	2	
C4045,46	ECJ1VF1C104Z	16V 0.1U	2	
C4047	ECQV1H104JL	50V 0.1U	1	
C4049	F2A0J471A247	6.3V 470U	1	
C4050	ECQV1H104JL	50V 0.1U	1	
C4052	F2A1C471A236	16V 470U	1	
C4901	F2A1A101A206	10V 100U	1	
C4902	ECJ1VF1C104Z	16V 0.1U	1	
C4903	F2A0J470A179	6.3V 47U	1	
C4904	ECJ1VF1C104Z	16V 0.1U	1	
C4906	ECJ1VC1H220J	50V 22P	1	
C7404	ECJ1VB1H103K	50V 0.01U	1	
C7405	F2A0J470A013	6.3V 47U	1	
C7406,07	ECJ1VB1C104K	16V 0.1U	2	
C7416	ECJ1VB1H103K	50V 0.01U	1	
C7417	F2A1H1R0A147	50V 1U	1	F2A1H1R0A146
C7432,33	F2A1C100A019	16V 10U	2	
C7436	ECJ1VB1C104K	16V 0.1U	1	
C7437	F2A0J470A013	6.3V 47U	1	
C7525	ECJ1VC1H101J	50V 100P	1	
C7526	ECJ1VF1C104Z	16V 0.1U	1	
C7528	ECJ1VF1C104Z	16V 0.1U	1	
C7550	ECJ1VB1H103K	50V 0.01U	1	
C7551	F2A1H100A146	50V 10U	1	
C7552	ECJ1VF1H104Z	50V 0.1U	1	
C7555	F2A1E221A122	25V 220U	1	F2A1E221A121
C7556	F2A1C221A019	16V 220U	1	
C7558	F2A1V470A116	35V 47U	1	
C7559	ECQB1H223KF3	50V 0.022U	1	
C7560	F2A1H100A146	50V 10U	1	
C7565	F1J0J475A008	6.3V 4.7U	1	
C7566,67	ECJ1VB1C104K	16V 0.1U	2	
C7569	ECJ1VF1C104Z	16V 0.1U	1	
C7580-83	ECJ1VC1H101J	50V 100P	4	
C7584,85	ECJ1VC1H180J	50V 18P	2	
C7586	ECJ1VC1H220J	50V 22P	1	
C7587	ECJ1VC1H150J	50V 15P	1	
C7588	F1J0J475A008	6.3V 4.7U	1	
C7589	ECJ1VF1C104Z	16V 0.1U	1	
C7595	ECJ1VF1C104Z	16V 0.1U	1	
C7596	ECJ1VC1H470J	50V 47P	1	
C7597	ECJ1VB1H103K	50V 0.01U	1	
C7598	ECJ1VC1H470J	50V 47P	1	
C7599	ECJ1VB1C104K	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7600	ECJ1VC1H470J	50V 47P	1	
C7601	ECJ1VB1C104K	16V 0.1U	1	
C7602	ECJ1VB1H103K	50V 0.01U	1	
C7604	ECJ1VF1C104Z	16V 0.1U	1	
C7607	ECJ1VF1C104Z	16V 0.1U	1	
C7609	ERJ3GEY0R00V	1/10W 0	1	
C7611-13	ECJ1VB1H103K	50V 0.01U	3	
C7618	ECJ1VB1H103K	50V 0.01U	1	
C7620	ECJ1VB1H103K	50V 0.01U	1	
C7626	ECJ1VB1H103K	50V 0.01U	1	
C7633	F2A0J471A280	6.3V 470U	1	
C7636	ECJ1VF1A105Z	10V 1U	1	
C7637	ECJ1VB1H103K	50V 0.01U	1	
C7639	ECJ1VF1C104Z	16V 0.1U	1	
C7650	ECJ1VB1H103K	50V 0.01U	1	
C7652	ECJ1VF1A105Z	10V 1U	1	
C7654	ECJ1VB1H103K	50V 0.01U	1	
D1501	MA2C165001VT	DIODE	1	
D4001	MA3Z142D0RG	DIODE	1	
D7401	MA4300N-M	DIODE	1	MAZ4300NM
D7501	MAZ4240NMF	DIODE	1	
D7502	B0AAGM000003	DIODE	1	B0HAGM000001
D7504,05	MA2C18500E	DIODE	2	
D7506	MAZ4300NLF	DIODE	1	
D7507	B0JDCE000002	DIODE	1	
D7511	B0JACE000001	DIODE	1	
DP7501	A2BD00000074	FL DISPLAY TUBE	1	
IC1502	C0DBAHG00013	IC	1	
IC1505	C0CBCDD00008	IC	1	
IC1506	C0CBCDD00002	IC	1	
IC1507	C0CBCDD00006	IC	1	
IC1508	C0DBEGD00002	IC	1	
IC1509	C0DBEFG00003	IC	1	
IC1510	C0DBEGG00003	IC	1	
IC3001	C1AB00001918	IC	1	
IC4001	C1AB00001920	IC	1	
IC4004	C0CBCDC00026	IC	1	
IC4005	C0CBCDC00027	IC	1	
IC7404	C0BBBB000006	IC	1	
IC7501	C2CBJG000381	IC	1	
IC7502	C0HBB0000033	IC	1	
IC7503	C0EBJ0000110	IC	1	
IC7505	C0EBE0000194	IC	1	
IC7506	C0ABBA000146	IC	1	
IP7501	ICP-N10T104	IC PROTECTOR	1	B1ZAZ0000035 ⚠
JK3901	K1U822B00003	JACK,IN1/IN3	1	
JK3902	K1U412B00001	JACK,OUT	1	
JK3903	K1U407B00003	JACK,AV OUT,OPTICAL OUT	1	
JK3904	K1U415B00001	JACK,L2	1	

[redacted]	[redacted]	[redacted]	[redacted]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
K3001	ERJ3GEY0R00V	1/10W 0	1	
K7401	ERJ3GEY0R00V	1/10W 0	1	
K7403,04	ERJ3GEY0R00V	1/10W 0	2	
K7502	ERJ3GEY0R00V	1/10W 0	1	
K7504	ERJ3GEY0R00V	1/10W 0	1	
K7506-12	ERJ3GEY0R00V	1/10W 0	7	
L1501	G0A220G00018	COIL 22UH	1	
L3001,02	ELEXH220JBV	COIL 22UH	2	
L4901	ELESE220KA	COIL 22UH	1	
L7401	G0A220G00018	COIL 22UH	1	
L7502	ELESE101K	COIL 100UH	1	
LB1501	J0JHC0000032	COIL	1	
LB1503	J0JHC0000032	COIL	1	
LB1504,05	J0JKB0000003	COIL	2	
LB3905-10	J0JCC0000103	COIL	6	
LB3915	J0JCC0000103	COIL	1	
LB3917,18	J0JCC0000103	COIL	2	
LB3924-29	J0JCC0000103	COIL	6	
LB4903-07	J0JCC0000103	COIL	5	
LB4909	J0JCC0000103	COIL	1	
LB4911,12	J0JCC0000103	COIL	2	
LB7402	J0JHC0000032	COIL	1	
LB7409,10	J0JHC0000032	COIL	2	
LB7411-13	ERJ3GEY0R00V	1/10W 0	3	
LB7501	VLP0175	COIL	1	J0JCC0000060
LB7502	ERJ3GEY0R00V	1/10W 0	1	
LB7503	J0JKB0000037	COIL	1	
LB7504-08	ERJ3GEY0R00V	1/10W 0	5	
P1501	K1KA08A00427	CONNECTOR(8P)	1	
P1502	K1KA23A00004	CONNECTOR(23P)	1	
P7402	K1KA88A00002	CONNECTOR(88P)	1	
P7503	K1KA03A00173	CONNECTOR(3P)	1	
P7504	K1KB12B00049	CONNECTOR(12P)	1	
Q4001	2SB1218A	TRANSISTOR	1	
Q4002,03	2SD132800L	TRANSISTOR	2	
Q7401	2SB1218A	TRANSISTOR	1	
Q7503	2SD1994B	TRANSISTOR	1	
Q7504	2SD0601A	TRANSISTOR	1	
Q7507	2SB0709ARL	TRANSISTOR	1	
Q7508	2SD1819AWL	TRANSISTOR	1	2SD1819A0L
Q7512	2SD0874A0L	TRANSISTOR	1	
QR4001-04	UN5211	TRANSISTOR	4	UNR5211
QR7502	UN5212TX	TRANSISTOR	1	UNR521200L
R1501	ERJ3GEYJ822V	1/10W 8.2K	1	D0GB822JA002
R1502	ERJ3GEYJ332V	1/10W 3.3K	1	D0GB332JA002
R1503	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R1504	ERDS2FJ271	1/4W 270	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1506	ERDS2FJ271	1/4W 270	1	
R1507	ERJ3RED330	1/16W 33	1	
R1508	ERJ3RBD201	1/16W 200	1	
R1509	ERJ3RBD102V	1/16W 1K	1	
R1510	ERJ3RED220	1/16W 22	1	
R1511	ERJ3RBD182V	1/16W 1.8K	1	
R1512	ERJ3RBD202	1/16W 2K	1	
R1515,16	ERDS2FJ271	1/4W 270	2	
R3025	ERJ3RBD153	1/16W 15K	1	
R3026	ERJ3GEYJ105V	1/10W 1M	1	
R3027	ERJ3GEY0R00V	1/10W 0	1	
R3028	ERJ3GEYJ471V	1/10W 470	1	
R3029	ERJ3GEY0R00V	1/10W 0	1	
R3030	ERJ3EKF75R0	1/10W 75	1	
R3031	ERJ3GEY0R00V	1/10W 0	1	
R3032,33	ERJ3GEYJ103V	1/10W 10K	2	D0GB103JA002
R3036	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R3038	ERJ3GEYJ330V	1/10W 33	1	D0GB330JA002
R3039,40	ERJ3GEYJ221V	1/10W 220	2	
R3041	ERJ3RBD104	1/16W 100K	1	
R3901,02	ERJ3EKF75R0	1/10W 75	2	
R3903	ERJ3GEYJ102V	1/10W 1K	1	
R3904,05	ERJ3EKF75R0	1/10W 75	2	
R3906	ERJ3GEYJ102V	1/10W 1K	1	
R3907-09	ERJ3EKF75R0	1/10W 75	3	
R3911,12	ERJ3EKF75R0	1/10W 75	2	
R3915	ERJ3GEYJ912V	1/10W 9.1K	1	
R3923-25	ERJ3EKF75R0	1/10W 75	3	
R3926	ERJ3GEYJ102V	1/10W 1K	1	
R3927-29	ERJ3EKF75R0	1/10W 75	3	
R4001-04	ERJ3GEYJ104	1/10W 100K	4	
R4008	ERJ3GEY0R00V	1/10W 0	1	
R4011-14	ERJ6GEYJ102V	1/8W 1K	4	
R4015,16	ERJ3GEYJ104	1/10W 100K	2	
R4017-20	ERJ3GEY0R00V	1/10W 0	4	
R4024,25	ERJ3GEYJ101	1/10W 100	2	D0GB101JA002
R4026	JAR0816P123D	1/16W 12K	1	D0HB123ZA002
R4027	D0HB622ZA002	1/16W 6.2K	1	
R4028	JAR0816P123D	1/16W 12K	1	D0HB123ZA002
R4029	D0HB622ZA002	1/16W 6.2K	1	
R4031,32	ERJ6GEYJ102V	1/8W 1K	2	
R4037,38	ERJ3GEYJ104	1/10W 100K	2	
R4039	ERJ3GEY0R00V	1/10W 0	1	
R4042	ERJ3GEY0R00V	1/10W 0	1	
R4043,44	JAR0816P392D	1/16W 3900	2	D0HB392ZA002
R4045,46	D0HB622ZA002	1/16W 6.2K	2	
R4049-52	ERJ3GEYJ103V	1/10W 10K	4	D0GB103JA002
R4059,60	ERJ3GEYJ473V	1/10W 47K	2	D0GB473JA002
R4061	ERJ3GEYJ681V	1/10W 680	1	D0GB681JA002
R4063,64	ERJ3GEYJ272V	1/10W 2.7K	2	
R4066	ERJ3GEYJ681V	1/10W 680	1	D0GB681JA002
R4069	ERJ3GEYJ221V	1/10W 220	1	
R4072	ERJ3GEYJ221V	1/10W 220	1	
R4074,75	ERJ3GEY0R00V	1/10W 0	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4077,78	ERJ3GEY0R00V	1/10W 0	2	
R4082	ERJ3GEY0R00V	1/10W 0	1	
R4901	ERJ3GEY0R00V	1/10W 0	1	
R4903	ERJ3GEY0R00V	1/10W 0	1	
R7403,04	ERJ3GEYJ101	1/10W 100	2	D0GB101JA002
R7406,07	ERJ3GEYJ101	1/10W 100	2	D0GB101JA002
R7418,19	ERG2SJ471E	2W 470	2	
R7442	ERJ3RBD222V	1/16W 2.2K	1	
R7443	ERJ3RBD102V	1/16W 1K	1	
R7444	ERJ3RBD153	1/16W 15K	1	
R7445	ERJ3RBD222V	1/16W 2.2K	1	
R7446	ERJ3RBD133V	1/16W 13K	1	
R7452	ERJ3GEYJ681V	1/10W 680	1	D0GB681JA002
R7505	ERJ3RBD273V	1/16W 27K	1	
R7507	ERDS2FJ331	1/4W 330	1	
R7508	ERDS2FJ5R6	1/4W 5.6	1	
R7510	ERJ3GEYJ332V	1/10W 3.3K	1	D0GB332JA002
R7511	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R7512,13	ERJ3GEYJ473V	1/10W 47K	2	D0GB473JA002
R7514	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7516	ERJ3GEY0R00V	1/10W 0	1	
R7519	ERJ3GEYJ102V	1/10W 1K	1	
R7520	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R7521	ERJ3GEYG152	1/10W 1.5K	1	
R7522	ERJ3GEYG562V	1/10W 5.6K	1	
R7523	ERJ3GEYD153V	1/10W 15K	1	D0HB153ZA002
R7529	ERJ3GEYJ223V	1/10W 22K	1	D0GB223JA002
R7530-33	ERJ3GEYJ473V	1/10W 47K	4	D0GB473JA002
R7534-37	ERJ3GEYJ101	1/10W 100	4	D0GB101JA002
R7538	ERJ3GEYJ472V	1/10W 4.7K	1	
R7539	ERJ3GEY0R00V	1/10W 0	1	
R7540	ERJ3GEYD274V	1/10W 270K	1	ERA3YKD274V
R7541	ERJ3GEY0R00V	1/10W 0	1	
R7542	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R7548	ERJ3GEYJ103V	1/10W 10K	1	D0GB103JA002
R7549	ERJ3GEYJ511	1/10W 510	1	
R7550,51	ERJ3GEYJ202V	1/10W 2K	2	
R7556	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7561	ERDS2TJ392	1/4W 3.9K	1	
R7563	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7569	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7570	ERJ3GEYJ104	1/10W 100K	1	
R7583,84	ERJ3GEYJ473V	1/10W 47K	2	D0GB473JA002
R7585	ERJ3GEYJ223V	1/10W 22K	1	D0GB223JA002
R7588	ERJ3GEYJ472V	1/10W 4.7K	1	
R7589-91	ERJ3RBD822	1/10W 8.2K	3	
R7595,96	ERJ3GEYJ473V	1/10W 47K	2	D0GB473JA002
R7597	ERJ3GEYD153V	1/10W 15K	1	D0HB153ZA002
R7598	ERJ3GEYJ102V	1/10W 1K	1	
R7599	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002
R7600,01	ERJ3GEYJ103V	1/10W 10K	2	D0GB103JA002
R7602	ERJ3GEYJ821V	1/10W 820	1	
R7603	ERJ3GEYJ183V	1/10W 18K	1	D0GB183JA002
R7604	ERJ3GEYJ473V	1/10W 47K	1	D0GB473JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7611	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7613	ERJ3GEYJ101	1/10W 100	1	D0GB101JA002
R7633	ERJ3GEYJ223V	1/10W 22K	1	D0GB223JA002
R7636-38	ERJ3GEYJ101	1/10W 100	3	D0GB101JA002
S7501	K0F111B00044	SWITCH(POWER)	1	
T7501	ETS13TB119AP	TRANSFORMER	1	⚠
TU7401	ENGD6201D	TUNER PACK	1	
W601-03	ERJ3GEY0R00V	1/10W 0	3	
W604,05	ERJ6GEY0R00V	1/8W 0	2	
W606-10	ERJ3GEY0R00V	1/10W 0	5	
W611	ERJ6GEY0R00V	1/8W 0	1	
W612-18	ERJ3GEY0R00V	1/10W 0	7	
W622-24	ERJ3GEY0R00V	1/10W 0	3	
X7501	H0D100500016	CRYSTAL OSCILLATOR	1	
X7502	H0A327200026	OSCILLATOR	1	
ZJ7407,08	VJR0978	EARTH ANGLE	2	K9ZZ00000424
■	04	REP3717B/RFKBE55PC		(DIGITAL P.C.B.)
C3401	ECJ1VB0J105K	6.3V 1U	1	
C3402	ECJ0EC1H220J	50V 22P	1	
C3403	ECJ0EB1A104K	10V 0.1U	1	
C3404,05	ECJ0EC1H220J	50V 22P	2	
C3406	ECJ0EB1A104K	10V 0.1U	1	
C3407,08	ECJ0EC1H100D	50V 10P	2	
C3410	ECJ0EB1C103K	16V 0.01U	1	
C3411	ECST0JX476R	6.3V 47U	1	
C3417-19	ECJ1VB0J105K	6.3V 1U	3	
C3420	ECJ0EB1C103K	16V 0.01U	1	
C3421	ECJ0EB1A104K	10V 0.1U	1	
C3422	ECJ0EB1C103K	16V 0.01U	1	
C3423-28	ECJ0EB1A104K	10V 0.1U	6	
C3429,30	ECJ2FB0J106M	6.3V 10U	2	
C3431	ECJ0EB1A104K	10V 0.1U	1	
C3432	ECJ1VB0J105K	6.3V 1U	1	
C3433	ECJ0EB1A104K	10V 0.1U	1	
C3435,36	ECJ0EB1A104K	10V 0.1U	2	
C3440	EEEHB0J101P	6.3V 100P	1	
C3441	ECJ0EB1A104K	10V 0.1U	1	
C4402	EEEHB1C100R	16V 10P	1	
C4403	ECJ0EF1C104Z	16V 0.1U	1	
C4404	EEEHB0J101P	6.3V 100P	1	
C4405,06	ECJ0EF1C104Z	16V 0.1U	2	
C4407	EEEHB1C100R	16V 10P	1	
C4408,09	ECJ0EF1C104Z	16V 0.1U	2	
C4410	F2H0J331A016	6.3V 330U	1	
C4411	ECJ0EF1C104Z	16V 0.1U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4412	EEEHB0J101P	6.3V 100P	1	
C4415	EEEHB0J470R	6.3V 47P	1	
C4416	ECJ0EF1C104Z	16V 0.1U	1	
C4417	ECST1AY106R	10V 10U	1	
C4418	ECJ0EF1C104Z	16V 0.1U	1	
C4421	ECJ0EB1E102K	25V 1000P	1	
C4423,24	ECJ0EB1E102K	25V 1000P	2	
C4426	ECJ0EF1C104Z	16V 0.1U	1	
C6001	ECJ0EF1C104Z	16V 0.1U	1	
C6002	ECJ2FB0J106M	6.3V 10U	1	
C6003	ECJ0EB1C103K	16V 0.01U	1	
C9001,02	ECJ0EC1H470J	50V 47P	2	
C50001	ECJ1VB0J105K	6.3V 1U	1	
C50002	EEEHB0J220R	6.3V 22P	1	
C50004,05	ECJ0EB1A104K	10V 0.1U	2	
D3401,02	MA3S132E0L	DIODE	2	
D4401	MA3Z142K0LG	DIODE	1	
FL3401,02	F1H0J4740004	FILTER	2	
FL3404	F1H0J4740004	FILTER	1	
FL3406,07	F1H0J4740004	FILTER	2	
FL3409-12	F1H0J4740004	FILTER	4	
FL3414-26	F1H0J4740004	FILTER	13	
FL3429	F1H0J4740004	FILTER	1	
FL3431	F1H0J4740004	FILTER	1	
FL3433-35	F1H0J4740004	FILTER	3	
FL4401,02	F1H0J4740004	FILTER	2	
FL6001-06	F1H0J4740004	FILTER	6	
FL6008-17	F1H0J4740004	FILTER	10	
FL6020-23	F1H0J4740004	FILTER	4	
FL6701-03	F1H0J4740004	FILTER	3	
FL50001-06	F1H0J4740004	FILTER	6	
FP3401	K1MN40A00022	CONNECTOR(40P)	1	
IC3401	AN13310B-VB	IC	1	
IC3402	C3ABRG000036	IC	1	
IC3404	MN85573R	IC	1	
IC3406	C1DB00001110	IC	1	
IC3408	C3ABPJ000048	IC	1	
IC3409	C0DBZGC00066	IC	1	
IC4402	C0FBBK000035	IC	1	
IC4403	C0JBAD000107	IC	1	
IC4404	C0CBCBD00002	IC	1	
IC4406	C0FBAK000008	IC	1	
IC6001	MN2DS0011-HR	IC	1	
IC6002	C0EBE0000130	IC	1	
IC6003	C3CBLD000088	IC	1	
IC6004	74LVC244APWL	IC	1	C0JBAZ001466
IC6005	C3ABQG000068	IC	1	
IC6701	C1ZBZ0002429	IC	1	
IC6702	REP3717B	DIGITAL P.C.B.	1	(P)
IC6702	RFKBE55PC	DIGITAL P.C.B.	1	(PC)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC50001,02	C3ABPG000067	IC	2	
LB3404,05	J0JHC0000032	COIL	2	
LB3408,09	J0JHC0000032	COIL	2	
LB4401	J0JGC0000020	COIL	1	
LB4402	J0JHC0000032	COIL	1	
LB4403,04	J0JGC0000020	COIL	2	
LB6001,02	J0JHC0000032	COIL	2	
LB9001,02	J0JHC0000032	COIL	2	
LB9006,07	J0JCC0000103	COIL	2	
LB9008	J0JHC0000045	COIL	1	
LB9009	J0JHC0000046	COIL	1	
LB50001-05	J0JHC0000032	COIL	5	
P6002	K1KA06A00328	CONNECTOR(6P)	1	
P9001	K1KB88A00002	CONNECTOR(88P)	1	
Q6001,02	B1ABCF000114	TRANSISTOR	2	
Q6701-05	B1ABCF000114	TRANSISTOR	5	
Q50001-05	B1ADCF000081	TRANSISTOR	5	
QR3401	UNR521L00L	TRANSISTOR	1	
R3405	ERJ2GEJ103	1/16W 10K	1	
R3407	ERJ2GE0R00X	1/16W 0	1	
R3409	ERJ2GE0R00X	1/16W 0	1	
R3410,11	ERJ2GEJ101	1/16W 100	2	
R3412	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X
R3414	ERJ2GEJ330X	1/16W 33	1	
R3416	ERJ2GEJ472X	1/16W 4.7K	1	ERJ2RMJ472X
R3417,18	ERJ2GEJ103	1/16W 10K	2	
R3419-23	ERJ2GEJ220X	1/16W 22	5	ERJ2RMJ220X
R3427	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X
R3430	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X
R3440	ERJ2GEJ103	1/16W 10K	1	
R3442	ERJ2GEJ103	1/16W 10K	1	
R3443-45	ERJ2GE0R00X	1/16W 0	3	
R3447	ERJ2RHD682	1/16W 6.8K	1	
R3448	ERJ2GEJ562X	1/16W 5.6K	1	
R3449	ERJ2RHD682	1/16W 6.8K	1	
R3450	ERJ2GEJ104	1/16W 100K	1	
R3451	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X
R3452	ERJ2GE0R00X	1/16W 0	1	
R3453	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X
R3454	ERJ2GEJ390X	1/16W 39	1	ERJ2RMJ390X
R3455,56	ERJ2GEJ220X	1/16W 22	2	ERJ2RMJ220X
R3457	ERJ2GE0R00X	1/16W 0	1	
R3460-62	ERJ2GEJ470	1/16W 47	3	
R3463	ERJ2GEJ820X	1/16W 82	1	
R3464	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X
R3465	ERJ2GEJ332X	1/16W 3.3K	1	ERJ2RMJ332X
R3466	ERJ2GEJ820X	1/16W 82	1	
R3467	ERJ2GEJ562X	1/16W 5.6K	1	
R3468	ERJ2GEJ103	1/16W 10K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3470	ERJ2GEJ103	1/16W 10K	1	
R3471	ERJ2GEJ330X	1/16W 33	1	
R3472,73	ERJ2GEJ220X	1/16W 22	2	ERJ2RMJ220X
R3476	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X
R4402-06	ERJ2GE0R00X	1/16W 0	5	
R4408	ERJ3GEY0R00V	1/10W 0	1	
R4413-15	ERJ3GEY0R00V	1/10W 0	3	
R4418	ERJ2GEJ221	1/16W 220	1	
R4419-22	ERJ2GE0R00X	1/16W 0	4	
R4425	ERJ2GEJ562X	1/16W 5.6K	1	
R4426-28	ERJ2GE0R00X	1/16W 0	3	
R6001	ERJ2GEJ333X	1/16W 33K	1	ERJ2RMJ333X
R6002	ERJ2GEJ332X	1/16W 3.3K	1	ERJ2RMJ332X
R6003	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X
R6004	ERJ2GEJ472X	1/16W 4.7K	1	ERJ2RMJ472X
R6005	ERJ2GEJ103	1/16W 10K	1	
R6006	ERJ2GEJ153	1/16W 15K	1	
R6007	ERJ2GEJ472X	1/16W 4.7K	1	ERJ2RMJ472X
R6008	ERJ2GEJ103	1/16W 10K	1	
R6009,10	ERJ2GEJ330X	1/16W 33	2	
R6013	ERJ2GEJ103	1/16W 10K	1	
R6018,19	ERJ2GEJ220X	1/16W 22	2	ERJ2RMJ220X
R6020	ERJ2GE0R00X	1/16W 0	1	
R6021,22	ERJ2GEJ470	1/16W 47	2	
R6023	ERJ2GEJ332X	1/16W 3.3K	1	ERJ2RMJ332X
R6028	ERJ2GEJ470	1/16W 47	1	
R6029	ERJ2GEJ103	1/16W 10K	1	
R6031	ERJ2GEJ470	1/16W 47	1	
R6035	ERJ2GEJ470	1/16W 47	1	
R6036	ERJ2GEJ332X	1/16W 3.3K	1	ERJ2RMJ332X
R6037	ERJ2GEJ333X	1/16W 33K	1	ERJ2RMJ333X
R6038	ERJ2GEJ103	1/16W 10K	1	
R6040	ERJ2GEJ332X	1/16W 3.3K	1	ERJ2RMJ332X
R6702-04	ERJ2GEJ470	1/16W 47	3	
R6706,07	ERJ2GEJ470	1/16W 47	2	
R6709,10	ERJ2GEJ332X	1/16W 3.3K	2	ERJ2RMJ332X
R6711,12	ERJ2GEJ470	1/16W 47	2	
R6713	ERJ2GEJ103	1/16W 10K	1	
R6714	ERJ2GEJ333X	1/16W 33K	1	ERJ2RMJ333X
R6715	ERJ2GEJ470	1/16W 47	1	
R6718	ERJ2GE0R00X	1/16W 0	1	
R6720-28	ERJ2GEJ470	1/16W 47	9	
R6729	ERJ2GEJ104	1/16W 100K	1	
R6730	ERJ2GEJ103	1/16W 10K	1	
R6731	ERJ2GEJ222X	1/16W 22K	1	ERJ2RMJ222X
R6733	ERJ2GEJ103	1/16W 10K	1	
R6735	ERJ2GEJ472X	1/16W 4.7K	1	ERJ2RMJ472X
R6737,38	ERJ2GEJ470	1/16W 47	2	
R6739	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X
R6741	ERJ2GEJ103	1/16W 10K	1	
R6742	ERJ2GEJ332X	1/16W 3.3K	1	ERJ2RMJ332X
R6743,44	ERJ2GEJ103	1/16W 10K	2	
R6745-51	ERJ2GEJ470	1/16W 47	7	
R6752	ERJ2GEJ101	1/16W 100	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6753-56	ERJ2GEJ470	1/16W 47	4	
R50001	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X
R50002	ERJ2GE0R00X	1/16W 0	1	
R50003	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X
R50004	ERJ2GE0R00X	1/16W 0	1	
R50005	ERJ2GEJ330X	1/16W 33	1	
R50006,07	ERJ2GEJ470	1/16W 47	2	
R50008	ERJ2GEJ220X	1/16W 22	1	ERJ2RMJ220X
R50009	ERJ2GEJ103	1/16W 10K	1	
R50010	ERJ2RHD332	1/16W 3.3K	1	
R50011	ERJ2RHD223X	1/16W 22K	1	
R50012,13	ERJ2GE0R00X	1/16W 0	2	
R50015	ERJ2RHD333	1/16W 33K	1	
R50016	ERJ2RHD152	1/16W 1.5K	1	
R50017	ERJ2RHD153	1/16W 15K	1	
R50018	ERJ3RBD151	1/16W 150	1	
R50019	ERJ2GEJ330X	1/16W 33	1	
R50020	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X
R50021	ERJ3RED820	1/16W 82	1	
R50022	ERJ2GEJ330X	1/16W 33	1	
R50023	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X
R50024	ERJ3RED820	1/16W 82	1	
R50025	ERJ2GEJ330X	1/16W 33	1	
R50026	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X
R50027	ERJ3RBD151	1/16W 150	1	
R50028	ERJ2GEJ330X	1/16W 33	1	
R50029	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X
R50030	ERJ3RED330	1/16W 33	1	
R50031	ERJ3RBD151	1/16W 150	1	
R50032	ERJ2GEJ330X	1/16W 33	1	
R50033	ERJ2GEJ102X	1/16W 1K	1	ERJ2RMJ102X
R50034,35	ERJ3RED220	1/16W 22	2	
RX3401-16	D1H82204A024	RESISTOR-RESISTOR	16	
RX3419-26	D1H82204A024	RESISTOR-RESISTOR	8	
RX3427-32	D1H81034A024	RESISTOR-RESISTOR	6	
RX3433-44	D1H82204A024	RESISTOR-RESISTOR	12	
RX6001	D1H81034A024	RESISTOR-RESISTOR	1	
RX6005,06	D1H83304A024	RESISTOR-RESISTOR	2	
RX6009-26	D1H83304A024	RESISTOR-RESISTOR	18	
RX6027-32	D1H84704A024	RESISTOR-RESISTOR	6	
RX6033,34	D1H83324A013	RESISTOR-RESISTOR	2	
RX6035,36	D1H83334A024	RESISTOR-RESISTOR	2	
RX6037	D1H81034A024	RESISTOR-RESISTOR	1	
RX6038	D1H83304A024	RESISTOR-RESISTOR	1	
RX6039-42	D1H84704A024	RESISTOR-RESISTOR	4	
RX6043	D1H81034A024	RESISTOR-RESISTOR	1	
RX6044	D1H83334A024	RESISTOR-RESISTOR	1	
RX6706	D1H84704A024	RESISTOR-RESISTOR	1	
RX6708	D1H84704A024	RESISTOR-RESISTOR	1	
RX6711,12	D1H83324A013	RESISTOR-RESISTOR	2	
RX6716	D1H84704A024	RESISTOR-RESISTOR	1	
RX6717-19	D1H83334A024	RESISTOR-RESISTOR	3	
RX6720,21	D1H83324A013	RESISTOR-RESISTOR	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RX6724	D1H84704A024	RESISTOR-RESISTOR	1	
RX6726-28	D1H84704A024	RESISTOR-RESISTOR	3	
RX6731-34	D1H84704A024	RESISTOR-RESISTOR	4	
RX6735	D1H82224A024	RESISTOR-RESISTOR	1	
RX6736	D1H81034A024	RESISTOR-RESISTOR	1	
RX6737	D1H84724A024	RESISTOR-RESISTOR	1	
RX6738	D1H83334A024	RESISTOR-RESISTOR	1	
RX50001-16	D1H84704A024	RESISTOR-RESISTOR	16	
X3401	H0J270500069	CRYSTAL OSCILLATOR	1	
■	05	REP3713A		(FRONT(R) P.C.B.)
C7801	ECJ1VF1A105Z	10V 1U	1	
D7801	B3ABA0000396	DIODE	1	
IR7801	B3RAD0000071	REMOTE SENSOR	1	
P7801	K1KA12B00136	CONNECTOR(12P)	1	
QR7801	UN2214	TRANSISTOR	1	UNR2214
R7801	ERDS2FJ330	1/4W 33	1	
R7802	ERJ3GEYJ221V	1/10W 220	1	
R7809	ERJ3RBD272	1/16W 2.7K	1	
R7817	ERJ3RBD272	1/16W 2.7K	1	
R7818	ERJ3RBD222V	1/16W 2.2K	1	
R7819	ERA3YED332	1/16W 3.3K	1	
R7825	ERJ3RBD272	1/16W 2.7K	1	
R7826	ERJ3RBD222V	1/16W 2.2K	1	
R7827	ERA3YED332	1/16W 3.3K	1	
S7801	EVQ11G07K	SWITCH(OPEN/CLOSE)	1	
S7802	EVQ11G07K	SWITCH(SKIP-F)	1	
S7809	EVQ11G07K	SWITCH(CH-DOWN)	1	
S7811	EVQ11G07K	SWITCH(REC)	1	
S7812	EVQ11G07K	SWITCH(STOP)	1	
S7813	EVQ11G07K	SWITCH(SKIP-R)	1	
S7819	EVQ11G07K	SWITCH(CH-UP)	1	
S7820	EVQ11G07K	SWITCH(TIME-SLIP)	1	
S7821	EVQ11G07K	SWITCH(PLAY)	1	

23. Schematic Diagram for printing with A4 size

IC Pin Terminal Chart (TC 1 - TC 6)

TC	IC3404 / AVENC&RTSC		SIGNAL NAME	IC3402 / SDRAM	
	Port Name	Pin No		Pin No	Port Name
1	ARDQ0	334	MADQB0	2	DQ0
	ARDQ1	335	MADQB1	4	DQ1
	ARDQ2	336	MADQB2	5	DQ2
	ARDQ3	2	MADQB3	7	DQ3
	ARDQ4	4	MADQB4	8	DQ4
	ARDQ5	5	MADQB5	10	DQ5
	ARDQ6	7	MADQB6	11	DQ6
	ARDQ7	9	MADQB7	13	DQ7
	ARDQ8	16	MADQB8	42	DQ8
	ARDQ9	17	MADQB9	44	DQ9
	ARDQ10	19	MADQB10	45	DQ10
	ARDQ11	20	MADQB11	47	DQ11
	ARDQ12	22	MADQB12	48	DQ12
	ARDQ13	23	MADQB13	50	DQ13
	ARDQ14	25	MADQB14	51	DQ14
	ARDQ15	26	MADQB15	53	DQ15
	ARA0	28	MAB0	23	A0
	ARA1	29	MAB1	24	A1
	ARA2	31	MAB2	25	A2
	ARA3	32	MAB3	26	A3
	ARA4	34	MAB4	29	A4
	ARA5	35	MAB5	30	A5
	ARA6	37	MAB6	31	A6
	ARA7	38	MAB7	32	A7
	ARA8	41	MAB8	33	A8
	ARA9	42	MAB9	34	A9
	ARA10	44	MAB10	35	A10
	ARA11	45	MAB11	22	A11
	ARA12	47	MAB12	36	A12

TC	IC3404 / AV ENC&RTSC		SIGNAL NAME	IC3408 / SDRAM	
	Port Name	Pin No		Pin No	Port Name
2	MDQ0	88	MDQA0	2	DQ0
	MDQ1	89	MDQA1	4	DQ1
	MDQ2	91	MDQA2	5	DQ2
	MDQ3	92	MDQA3	7	DQ3
	MDQ4	93	MDQA4	8	DQ4
	MDQ5	95	MDQA5	10	DQ5
	MDQ6	96	MDQA6	11	DQ6
	MDQ7	97	MDQA7	13	DQ7
	MDQ8	99	MDQA8	74	DQ8
	MDQ9	100	MDQA9	76	DQ9
	MDQ10	101	MDQA10	77	DQ10
	MDQ11	103	MDQA11	79	DQ11
	MDQ12	104	MDQA12	80	DQ12
	MDQ13	105	MDQA13	82	DQ13
	MDQ14	108	MDQA14	83	DQ14
	MDQ15	109	MDQA15	85	DQ15
	MDQ16	115	MDQA16	31	DQ16
	MDQ17	116	MDQA17	33	DQ17
	MDQ18	118	MDQA18	34	DQ18
	MDQ19	119	MDQA19	36	DQ19
	MDQ20	120	MDQA20	37	DQ20
	MDQ21	122	MDQA21	39	DQ21
	MDQ22	123	MDQA22	40	DQ22
	MDQ23	124	MDQA23	42	DQ23
	MDQ24	127	MDQA24	45	DQ24
	MDQ25	128	MDQA25	47	DQ25
	MDQ26	129	MDQA26	48	DQ26
	MDQ27	131	MDQA27	50	DQ27
	MDQ28	132	MDQA28	51	DQ28
	MDQ29	133	MDQA29	53	DQ29
	MDQ30	135	MDQA30	54	DQ30
	MDQ31	136	MDQA31	56	DQ31
	MA0	147	MAA0	25	A0
	MA1	148	MAA1	26	A1
	MA2	149	MAA2	27	A2
	MA3	152	MAA3	60	A3
	MA4	153	MAA4	61	A4
	MA5	154	MAA5	62	A5
	MA6	156	MAA6	63	A6
	MA7	157	MAA7	64	A7
	MA8	158	MAA8	65	A8
	MA9	160	MAA9	66	A9
	MA10	161	MAA10	24	A10

TC	IC3404 / AVENC&RTSC		SIGNAL NAME	FP3401 (DVD RAM)	
	Port Name	Pin No		Pin No	Port Name
3	S1DB0	258	RAMD0	24	DD0
	S1DB1	259	RAMD1	26	DD1
	S1DB2	260	RAMD2	28	DD2
	S1DB3	261	RAMD3	30	DD3
	S1DB4	263	RAMD4	32	DD4
	S1DB5	264	RAMD5	34	DD5
	S1DB6	265	RAMD6	36	DD6
	S1DB7	266	RAMD7	38	DD7
	S1DB8	268	RAMD8	37	DD8
	S1DB9	269	RAMD9	35	DD9
	S1DB10	271	RAMD10	33	DD10
	S1DB11	272	RAMD11	31	DD11
	S1DB12	274	RAMD12	29	DD12
	S1DB13	275	RAMD13	27	DD13
	S1DB14	276	RAMD14	25	DD14
	S1DB15	277	RAMD15	23	DD15

TC	IC3404 / AVENC&RTSC		SIGNAL NAME	IC6001 / AV DEC&MAIN CPU	
	Port Name	Pin No		Pin No	Port Name
4	R656OUT0	296	R656ENC0	278	VDIN0
	R656OUT1	297	R656ENC1	277	VDIN1
	R656OUT2	298	R656ENC2	272	VDIN2
	R656OUT3	299	R656ENC3	271	VDIN3
	R656OUT4	301	R656ENC4	270	VDIN4
	R656OUT5	302	R656ENC5	269	VDIN5
	R656OUT6	303	R656ENC6	268	VDIN6
	R656OUT7	304	R656ENC7	266	VDIN7

TC	IC6001/AV DEC&MAIN CPU		SIGNAL NAME	IC3404 / AVENC&RTSC	
	Port Name	Pin No		Pin No	Port Name
5	VDOUT0	289	R656DEC0	283	R656IN0
	VDOUT1	288	R656DEC1	284	R656IN1
	VDOUT2	286	R656DEC2	285	R656IN2
	VDOUT3	285	R656DEC3	286	R656IN3
	VDOUT4	284	R656DEC4	288	R656IN4
	VDOUT5	283	R656DEC5	289	R656IN5
	VDOUT6	282	R656DEC6	290	R656IN6
	VDOUT7	281	R656DEC7	291	R656IN7

TC	IC3404 / AVENC&RTSC		SIGNAL NAME	IC6001/AV DEC&MAIN CPU	
	Port Name	Pin No		Pin No	Port Name
6	STD0	229	STD0	251	STD0
	STD1	230	STD1	250	STD1
	STD2	231	STD2	249	STD2
	STD3	233	STD3	248	STD3
	STD4	234	STD4	247	STD4
	STD5	235	STD5	245	STD5
	STD6	238	STD6	244	STD6
	STD7	239	STD7	243	STD7

IC Pin Terminal Chart (TC7 - TC10)

TC	IC6001 / AV DEC&MAIN CPU		SIGNAL NAME	IC50001 / SDRAM	
	Port Name	Pin No		Pin No	Port Name
7	MDQM0	343	DQ0	2	DQ0
	MDQM1	346	DQ1	4	DQ1
	MDQM2	348	DQ2	5	DQ2
	MDQM3	350	DQ3	7	DQ3
	MDQM4	353	DQ4	8	DQ4
	MDQM5	355	DQ5	10	DQ5
	MDQM6	358	DQ6	11	DQ6
	MDQM7	360	DQ7	13	DQ7
	MDQM8	359	DQ8	42	DQ8
	MDQM9	356	DQ9	44	DQ9
	MDQM10	354	DQ10	45	DQ10
	MDQM11	352	DQ11	47	DQ11
	MDQM12	349	DQ12	48	DQ12
	MDQM13	347	DQ13	50	DQ13
	MDQM14	344	DQ14	51	DQ14
	MDQM15	342	DQ15	53	DQ15
	MAM0	317	A0	23	A0
	MAM1	320	A1	24	A1
	MAM2	322	A2	25	A2
	MAM3	328	A3	26	A3
	MAM4	330	A4	29	A4
	MAM5	332	A5	30	A5
	MAM6	331	A6	31	A6
	MAM7	329	A7	32	A7
	MAM8	323	A8	33	A8
	MAM9	321	A9	34	A9
	MAM10	318	A10	22	A10
	MAM11	316	A11	35	A11

TC	IC6001 / AV DEC&MAIN CPU		SIGNAL NAME	IC50002 / SDRAM	
	Port Name	Pin No		Pin No	Port Name
8	MDQM16	292	DQ16	2	DQ0
	MDQM17	295	DQ17	4	DQ1
	MDQM18	297	DQ18	5	DQ2
	MDQM19	299	DQ19	7	DQ3
	MDQM20	302	DQ20	8	DQ4
	MDQM21	304	DQ21	10	DQ5
	MDQM22	308	DQ22	11	DQ6
	MDQM23	310	DQ23	13	DQ7
	MDQM24	309	DQ24	42	DQ8
	MDQM25	305	DQ25	44	DQ9
	MDQM26	303	DQ26	45	DQ10
	MDQM27	301	DQ27	47	DQ11
	MDQM28	298	DQ28	48	DQ12
	MDQM29	296	DQ29	50	DQ13
	MDQM30	293	DQ30	51	DQ14
	MDQM31	291	DQ31	53	DQ15
	MAM0	317	A0	23	A0
	MAM1	320	A1	24	A1
	MAM2	322	A2	25	A2
	MAM3	328	A3	26	A3
	MAM4	330	A4	29	A4
	MAM5	332	A5	30	A5
	MAM6	331	A6	31	A6
	MAM7	329	A7	32	A7
	MAM8	323	A8	33	A8
	MAM9	321	A9	34	A9
	MAM10	318	A10	22	A10
	MAM11	316	A11	35	A11

TC	IC6001 / AV DEC&MAIN CPU		SIGNAL NAME	IC6005 / W-MEMORY	
	Port Name	Pin No		Pin No	Port Name
9	MD0	118	MD0	2	DQ0
	MD1	121	MD1	4	DQ1
	MD2	123	MD2	5	DQ2
	MD3	125	MD3	7	DQ3
	MD4	128	MD4	8	DQ4
	MD5	130	MD5	10	DQ5
	MD6	133	MD6	11	DQ6
	MD7	135	MD7	13	DQ7
	MD8	134	MD8	42	DQ8
	MD9	131	MD9	44	DQ9
	MD10	129	MD10	45	DQ10
	MD11	127	MD11	47	DQ11
	MD12	124	MD12	48	DQ12
	MD13	122	MD13	50	DQ13
	MD14	119	MD14	51	DQ14
	MD15	117	MD15	53	DQ15
	MA0	160	MA0	23	A0
	MA1	163	MA1	24	A1
	MA2	165	MA2	25	A2
	MA3	167	MA3	26	A3
	MA4	166	MA4	29	A4
	MA5	164	MA5	30	A5
	MA6	161	MA6	31	A6
	MA7	159	MA7	32	A7
	MA8	156	MA8	33	A8
	MA9	153	MA9	34	A9
	MA10	157	MA10	22	A10
	MA11	151	MA11	35	A11
	MA12	147	MA12	36	NC
	MA13	154	MA13	21	A12
	MA14	152	MA14	20	A13

TC	IC6701 / GLUE		SIGNAL NAME	IC6702 / DATA STRAGE	
	Port Name	Pin No		Pin No	Port Name
10	ECCD0	109	DE0	18	D0
	ECCD1	110	DE1	19	D1
	ECCD2	111	DE2	20	D2
	ECCD3	112	DE3	21	D3
	ECCD4	113	DE4	24	D4
	ECCD5	114	DE5	25	D5
	ECCD6	115	DE6	26	D6
	ECCD7	116	DE7	27	D7

SA0 - SA25 ADDRESS BUS LINE (TC12, TC14-1, TC15-1, TC17, TC18-1)

TC	12		14-1		15-1		17		18-1	
SIGNAL NAME	**IC3404 / AVENC&RTSC**		**IC6701 / GLUE**		**IC6001 / AVDEC&MAIN CPU**		**IC6004 / BUFFER**		**IC6003 / LOADER**	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SA0	-	-	-	-	28	SA0	-	-	-	-
SA1	-	-	-	-	27	SA1	2	1A1	25	A0
SA2	-	-	-	-	26	SA2	4	1A2	24	A1
SA3	-	-	-	-	25	SA3	6	1A3	23	A2
SA4	-	-	-	-	24	SA4	8	1A4	22	A3
SA5	186	HA4	6	ADRL5	22	SA5	-	-	21	A4
SA6	187	HA5	5	ADRL6	20	SA6	-	-	20	A5
SA7	188	HA6	4	ADRL7	19	SA7	-	-	19	A6
SA8	189	HA7	-	-	18	SA8	-	-	18	A7
SA9	191	HA8	-	-	17	SA9	-	-	8	A8
SA10	192	HA9	-	-	16	SA10	-	-	7	A9
SA11	194	HA10	-	-	15	SA11	-	-	6	A10
SA12	195	HA11	-	-	14	SA12	-	-	5	A11
SA13	-	-	-	-	12	SA13	-	-	4	A12
SA14	-	-	-	-	11	SA14	-	-	3	A13
SA15	-	-	-	-	10	SA15	-	-	2	A14
SA16	-	-	-	-	9	SA16	-	-	1	A15
SA17	-	-	-	-	8	SA17	-	-	48	A16
SA18	-	-	-	-	7	SA18	-	-	17	A17
SA19	-	-	-	-	6	SA19	-	-	16	A18
SA20	-	-	-	-	3	SA20	-	-	-	-
SA21	-	-	-	-	2	SA21	-	-	-	-
SA22	-	-	12	ADR22	1	SA22	-	-	-	-
SA23	-	-	13	ADRH0	363	SA23	-	-	-	-
SA24	-	-	14	ADRH1	362	SA24	-	-	-	-
SA25	-	-	15	ADRH2	361	SA25	-	-	-	-

SD16 - SD31 DATA BUS LINE (TC14-2, TC15-2, TC18-2)

TC	14-2		15-2		18-2	
SIGNAL NAME	**IC6701 / GLUE**		**IC6001 / AVDEC&MAIN CPU**		**IC6003 / LOADER**	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
SD16	50	LDTI0	67	SD16	29	I/O0
SD17	49	LDTI1	66	SD17	31	I/O1
SD18	47	LDTI2	65	SD18	33	I/O2
SD19	45	LDTI3	64	SD19	35	I/O3
SD20	43	LDTI4	63	SD20	38	I/O4
SD21	42	LDTI5	62	SD21	40	I/O5
SD22	40	LDTI6	61	SD22	42	I/O6
SD23	36	LDTI7	59	SD23	44	I/O7
SD24	35	LDTI8	58	SD24	30	I/O8
SD25	34	LDTI9	57	SD25	32	I/O9
SD26	33	LDTI10	56	SD26	34	I/O10
SD27	31	LDTI11	55	SD27	36	I/O11
SD28	29	LDTI12	54	SD28	39	I/O12
SD29	28	LDTI13	53	SD29	41	I/O13
SD30	27	LDTI14	51	SD30	43	I/O14
SD31	26	LDTI15	50	SD31	45	I/O15

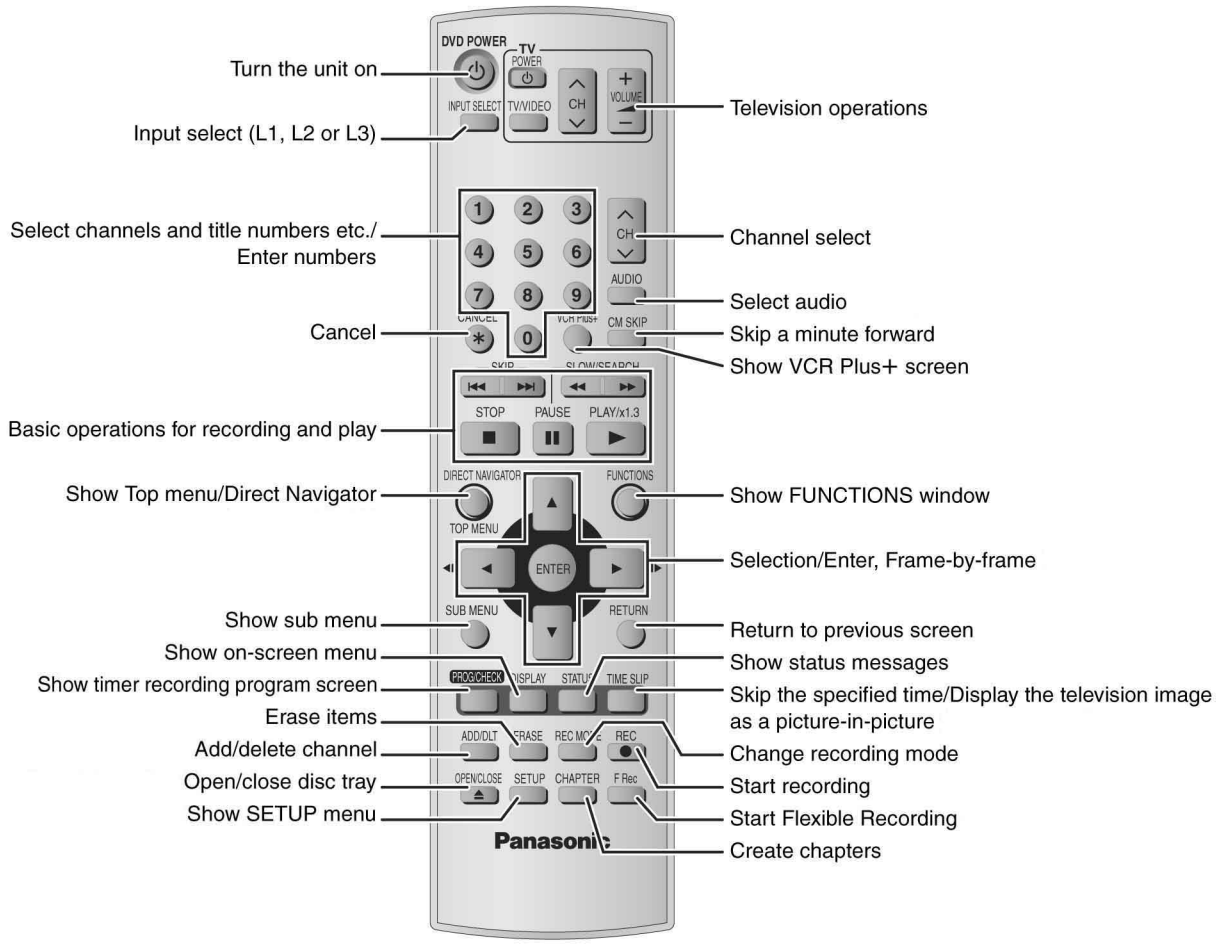
MSD16 - MSD31 DATA BUS LINE (TC11-1, TC13-1)

TC	11-1		13-1	
SIGNAL NAME	**IC3404 / AVENC&RTSC**		**IC6701 / GLUE**	
	Pin No	Port Name	Pin No	Port Name
MSD16	203	HD0	74	LDEV0
MSD17	204	HD1	73	LDEV1
MSD18	206	HD2	72	LDEV2
MSD19	207	HD3	71	LDEV3
MSD20	209	HD4	69	LDEV4
MSD21	210	HD5	68	LDEV5
MSD22	212	HD6	67	LDEV6
MSD23	213	HD7	64	LDEV7
MSD24	215	HD8	63	LDEV8
MSD25	216	HD9	61	LDEV9
MSD26	217	HD10	60	LDEV10
MSD27	218	HD11	59	LDEV11
MSD28	220	HD12	56	LDEV12
MSD29	221	HD13	54	LDEV13
MSD30	223	HD14	53	LDEV14
MSD31	224	HD15	52	LDEV15

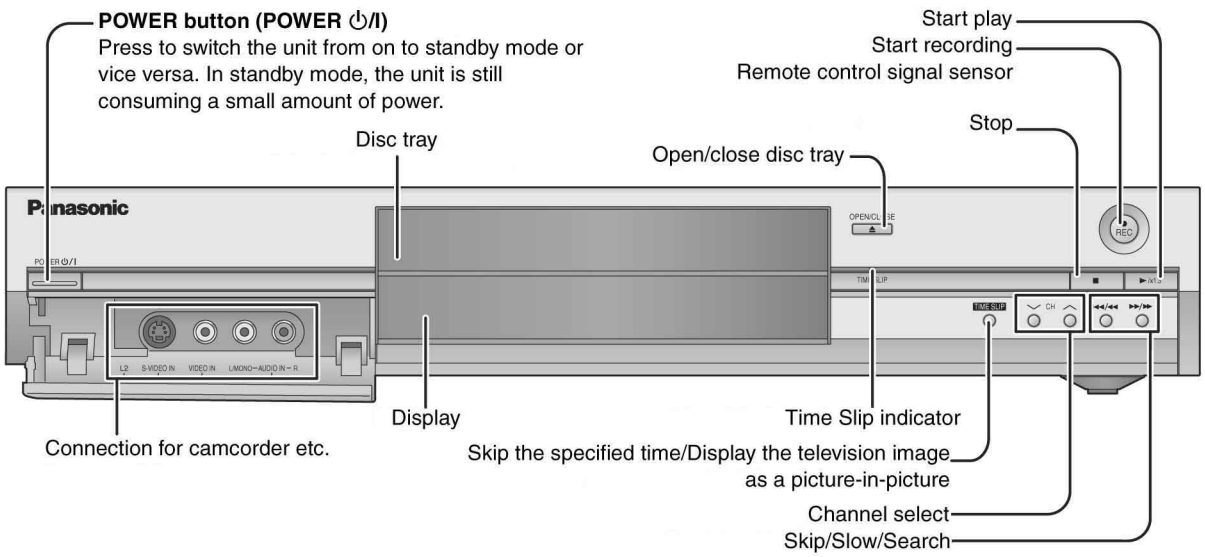
MSA1 - MSA4 ADDRESS BUS LINE (TC11, TC13-2, TC16)

TC	11		13-2		16	
SIGNAL NAME	**IC3404/AVENC&RTSC**		**IC6701/GLUE**		**IC6004/BUFFER**	
	Pin No	Port Name	Pin No	Port Name	Pin No	Port Name
MSA1	107	HA0	10	ADRL1	18	1Y1
MSA2	106	HA1	9	ADRL2	16	1Y2
MSA3	105	HA2	8	ADRL3	14	1Y3
MSA4	104	HA3	7	ADRL4	12	1Y4

Remote control

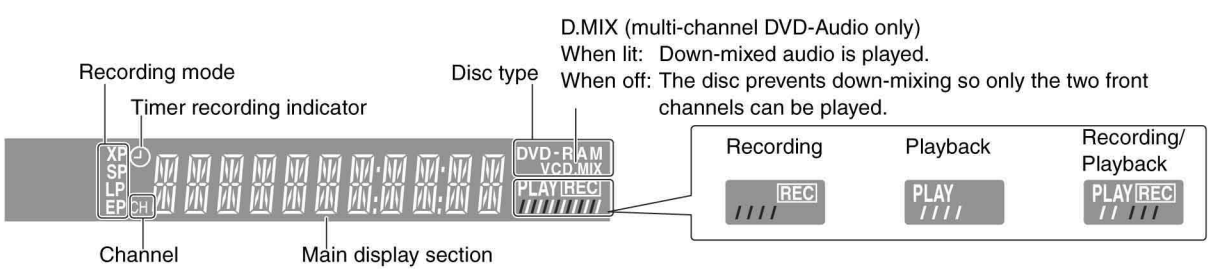


Main unit



Rear panel terminals

The unit's display



:REC SIGNAL :PB SIGNAL

IC4001
(AUDIO SOUND PROCESSOR)

TU7401
U/V TUNER PACK
L OUT 27
R OUT 26
TUNER L
TUNER R
TUIL 2
TUIR 3
0.8,12dB

JK3901
A/V JACK
AUDIO
LINE IN L 16
JSB IN L 17
LINE IN R 19
JSB IN R 20
L1 IN L
L3 IN L
L1 IN R
L3 IN R
EXT21 11
EXT31 13
EXT22 12
EXT32 14

JK3904
FRONT A/V JACK
AUDIO
L 5
2
R 3
L2 IN L
L2 IN R
FRONT1 32
FRONT2 31

INPUT SELECTOR
-6.1dB
0.5dB
OUTL 29
OUTR 28

I²C BUS LOGIC
SCL 20
SDA 21
17
IIC CLOCK
IIC DATA
P7402 | P9001
21
19
TO/FROM DIGITAL P.C.B. GLUE SECTION

AADC L
AADC R
P7402 | P9001
50
48
TO DIGITAL BLOCK SECTION

FROM TIMER SEC. (IC7501- 20)
XTMUTE
QR4001,4004 SWITCH
FROM DIGITAL P.C.B. AUDIO I/O SECTION
P9001 | P7402 70
XDMUTE
QR4002,4003 SWITCH
Q4001 MUTE
(5V)
D4001
Q4002 MUTE
Q4003 MUTE

FROM DIGITAL BLOCK SECTION
P9001 | P7402 62
MIXLOUT DM
P9001 | P7402 58
MIXROUT DM
P9001 | P7402 72
IECOUT

MIX L OUT
MIX R OUT
IEC OUT

JK3902
A/V OUT REAR JACK
OUT-L 17
OUT-R 20
LINE

JK3903
DIGITAL AUDIO OUT
OPTICAL 23

DMR-E55P/PC
ANALOG AUDIO
BLOCK DIAGRAM

LB4401
J0JGC0000020

GN D3.3V

EN 768FS1

R4403 0
R4402 0

R4426 0
R4427 0
R4428 0
R4425 5600

GN X1DA LP
MC DEC SCK
MC DEC SDTO
GN XDMUTE
MC XRESET

C4406 0.1

D4401
MA3Z142K0LG

IC4402
C0FBBK000035
(AUDIO 2CH D/A CONVERTER)

SCK MLC MDI NC ZEROA VCOM AGNDL
BCK DATA LRCK DGND VDD VCC VOUTL VOUTR

C4403 0.1
C4402 16V10

IC4403
C0JBAD000107
(XD MUTE OUT)

VCC OUTY INB INA GND

GN AMUTE
GN MIXROUT DM
GN MIXLOUT DM

MC 1DABCK
MC 1DADATA
MC 1DALRCK

R4406 0
R4405 0
R4404 0

FL4401
F1H0J4740004

C4407 16V10

LB4404
J0JGC0000020

FL4402
F1H0J4740004

C4408 0.1

IC4404
C0CBCBD00002
(REG.DAC+3.3V)

OUT GND NR
VIN GND ON

GN DGND

C4405 0.1
C4404 6V100

LB4402
J0JHC0000032

GN AU5V

C4409 0.1
C4410 6V330
C4411 0.1
C4412 6V100

LB4403
J0JGC0000020

GN AADC R

R4413 0

GN AUGND

C4418 0.1
C4417 10V10

R4415 0

GN AADC L

R4408 0
R4414 0

GN XADC PD

IC4406
C0FBAK000008
(AUDIO A/D CONVERTER)

MODE1 MODE0 FMT1 FMT0 TEST SCKI VDD DGND DOUT BCK
VINL VINR VREF1 VREF2 VCC AGND XPDWN BYPAS FSYNC LRCK

R4420 0
R4421 0
R4422 0

EN ENCMCK2
GN ADDATA
GN ADBCK

R4419 0

GN ADLRCK

C4426 0.1

C4416 0.1
C4415 6V47

R4418 220

C4421 1000P
C4423 1000P
C4424 1000P

GN:Glue Net Section(Page: F)
EN:AV Encoder/RTSC Section(Page: C)
MC:AV Decoder/Main CPU Section(Page: H)
AI:Audio I/O Section(Page: I)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E55P/PC
Audio I/O Section (Digital P.C.B.(4/4))
Schematic Diagram (AI)

P:Sub Power Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

P X SW 5.8V
P X SW 13V
K4008 VWJ0023=5
AU 5V M
C4046 0.1
C4049 6V470
IC4004 C0CBCDC00026 (REG.AU+5V)
VIN VOUT ON GND NR
C4047 0.1
R4077 0
C4045 0.1
C4052 16V470
IC4005 C0CBCDC00027 (REG.AU+9V)
C4050 0.1
R4078 0
K4007 VWJ0023=5
C4037 16V220
T POWER ON H
K4005 VWJ0023=10
M MIXLOUT DM
M MIXROUT DM
M AADC R
M AADC L
C4028 16V1
C4029 16V1
R4043 3900
R4044 3900
R4046 6200
R4045 6200
R4042 0
C4038 25V47
R4061 680
R4069 220
MIX L OUT V
R4059 47K
C4039 1000P
R4075 0
R4074 0
C4024 25V47
C4025 25V47
R4027 6200
R4029 6200
V L2 IN R
V L2 IN L
R4037 100K
R4038 100K
C4027 50V1
C4026 50V1
D4001 MA3Z142D0LG
R4063 2700
Q4002 2SD132800L (MUTE)
R4064 2700
Q4003 2SD132800L (MUTE)
T METER R
T METER L
M IIC CLK
M IIC DATA
R4024 100
R4025 100
R4020 0
R4019 0
R4039 0
C4036 25V47
R4060 47K
R4066 680
C4040 1000P
R4072 220
MIX R OUT V
C4022 0.1
C4023 16V470
R4032 1K
R4031 1K
R4028 12K
R4026 12K
C4019 82P
C4017 82P
C4016 16V220
X SW 5.2V P
R4052 10K
Q4001 2SB1218A (MUTE)
R4051 10K
R4050 10K
R4049 10K
AU GND M V
GND P
QR4004 UNR5211 (MUTE)
QR4003 UNR5211 (MUTE)
QR4001 UNR5211 (MUTE)
XTMUTE T
QR4002 UNR5211 (MUTE)
XDMUTE M
IC4001 C1AB00001920 (AUDIO SOUND PROCESSOR)
FRONT1 FRONT2 VCC OUTL OUTR LS DAL DAR RFOUT REGFIL GND SDA SCL POFF H DCZ DCI
TUIL TUIR CAP1 NC TUOL TUOR CAP2 EXT11 EXT12 EXT21 EXT22 EXT31 EXT32 DETL DETR
R4082 0
C4011 0.1
C4004 50V1
C4003 50V1
C4006 50V1
C4005 50V1
K4001 VWJ0023=5
M TUNER L
M TUNER R
R4017 0
R4018 0
C4014 50V1
C4013 50V1
R4015 100K
R4016 100K
C4010 0.1
C4009 0.1
R4012 1K
R4011 1K
R4014 1K
R4013 1K
R4008 0
V L1 IN L
V L1 IN R
V L3 IN L
V L3 IN R
R4004 100K
R4003 100K
R4002 100K
R4001 100K

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E55P/PC
Audio Main Section (Main P.C.B.(4/5))
Schematic Diagram (A)

G F E D C B A
1 2 3 4 5 6 7 8 9 10 11

FRONT(R)P.C.B.

S7819 CH-UP
S7820 TIME-WARP
S7821 PLAY
S7809 CH-DOWN
S7811 REC
S7812 STOP
S7813 SKIP-R
S7801 OPEN/CLOSE
S7802 SKIP-F
POWER S7501

IR7801 REMOTE CTL. SENSOR
N SW+5V

N SW+5V
TIME-WARP
D7801
QR7801 (LED DRIVE)

P7801 P7504 2 → KEY IN3 (104)
P7801 P7504 1 → KEY IN2 (97)
P7801 P7504 3 → KEY IN1 (96)
P7801 P7504 11 → IR (2)
P7801 P7504 4 → TIME WARP LED (74)

IC7501 (TIMER)

IC7502 (DISPLAY DRIVE)
FL RESET (84) → RESET (1)
FL CS (87) → CS (2)
FL CLK (6) → SCK (3)
FL TXD (4) → SDATA (4)
FL RXD (5)
DIG00 (63) … DIG07 (56)
SEG00 (44) … SEG09 (35) … SEG19 (25) … SEG25 (19) … SEG26 (17) … SEG31 (12) … SEG35 (45) … SEG41 (51)

DIG00-DIG07
SEG00-SEG41
DP7501 FIP DISPLAY
F+ F-
T7501 DISPLAY REGULATOR

IC7506 (FAN MOTOR DRIVE)
FAN PWM OUT (23) → B+IN (5) A OUT (1)
X SW13V
Q7512 (FAN MOTOR SWITCH)
IP7501 IC PROTECTOR
FANPWM
P7503 1
P7503 3
FAN MOTOR
FAN LOCK (64)

P SAVE Ⓛ (56) → P SAVE Ⓛ
POWER ON Ⓗ (88) → POWER ON Ⓗ
DR P ON Ⓗ (86) → DR P ON Ⓗ
JC P ON Ⓗ (89) → JC P ON Ⓗ
SYS PFAIL Ⓗ (81) → SYS PFAIL Ⓗ
TO/FROM POWER BLOCK SECTION

X IN (14) — X7501 10MHz (MAIN CLK) — X OUT (12)
XC IN (9) — X7502 32.768KHz (REAL TIME CLK) — XC OUT (10)

XT MUTE (20) → XT MUTE → TO AUDIO BLOCK SEC. (QR4001,4004)

SYNC IN (109) → SLICER VIDEO
CV IN (113)
L1 SWIDE (99) → L123 SWIDE
FROM VIDEO BLOCK SECTION

IC7503 (RESET)
XSW 5.2V → VDD (2) OUT (1) → P FAIL Ⓛ (80)

X SW+5.2V → VCC (69)
B7501 BACK UP BATTERY

DMR-E55P/PC
TIMER BLOCK DIAGRAM

:REC SIGNAL :PB SIGNAL

IC3001
(VIDEO PROCESSOR)

FROM DIGITAL BLOCK SECTION

P9001 P7402 18 COUT DM → 41 DVD C IN → BIAS → 6M LPF → 75 → C75 OUT 30 → CPN C OUT
P9001 P7402 22 YOUT DM → 39 DVD Y IN → CLAMP → 6M LPF → DRV MIX → 75 → V75 OUT 28 → CPS V OUT
V75 SAG 29
P9001 P7402 26 GPY YOUT DM → 47 DVD G/Py IN → SW1 → BIAS / CLAMP → 6M LPF → SW2 → 12M LPF
→ Py/G SW → 75 → Y75 OUT 26 → CPN Y OUT
Y75 SAG 27
→ Pb/B SW → 75 → Py/G OUT 37 → GPC Y OUT
Py/G SAG 36
P9001 P7402 30 BPB CBOUT DM → 51 DVD B/Pb IN → BIAS → 6M LPF → Pb/B SW → 75 → Pb/B OUT 33 → BPC B OUT
Pb/B SAG 32
P9001 P7402 34 RPR CROUT DM → 43 DVD R/Pr IN → BIAS → 6M LPF → Pr/R/C SW → 75 → Pr/R/C OUT 35 → RPC R OUT
Pr/R/C SAG 34

FROM/TO DIGITAL GLUE SECTION

P9001 P7402 19 IIC DATA → 57 SDA
P9001 P7402 21 IIC CLOCK → 58 SCL

16 S1/S2 DET3
23 S1/S2 DET1
9 S1/S2 DET2

I²C-BUS CONTROL

DET OUT A 8 → L123 SWIDE → TO TIMER SEC. (IC7501- 99)
S1/S2 OUT 31

JK3902
A/V OUT JACK
14 VIDEO / LINE OUT
3 Y
4 C
S1/S2 OUT

JK3903
COMPONENT VIDEO OUT (480P/480I)
20 Y(GREEN)
19 PB/CB (BLUE)
18 PR/CR (RED)

TU7401
U/V TUNER PACK
VIDEO OUT 18 → Q7401 AMP → TU V IN → 3 TUNER → CLAMP

JK3901
EXTERNAL A/V IN JACK
L3 VIDEO IN 14 → LINE 3V IN → 12 VIDEO3 IN → CLAMP
L1 VIDEO IN 13 → LINE 1V IN → 19 VIDEO1 IN → CLAMP
C 4 → CPN 3C IN → 17 C3 IN → BIAS
Y 3 → CPN 3Y IN → 14 Y3 IN → CLAMP
L3 S-VIDEO IN 6 → C/S DET3 → 13 C/S DET3
C 10 → CPN 1C IN → 24 C1 IN → BIAS
Y 9 → CPN 1Y IN → 21 Y1 IN → CLAMP
L1 S-VIDEO IN 11 → C/S DET1 → 20 C/S DET1

JK3904
FRONT A/V JACK
L2 VIDEO IN 7 → LINE 2V IN → 5 VIDEO2 IN → CLAMP
C 12 → CPN 2C IN → 10 C2 IN → BIAS
Y 11 → CPN 2Y IN → 7 Y2 IN → CLAMP
L2 S-VIDEO IN 6 → C/S DET2 → 6 C/S DET2

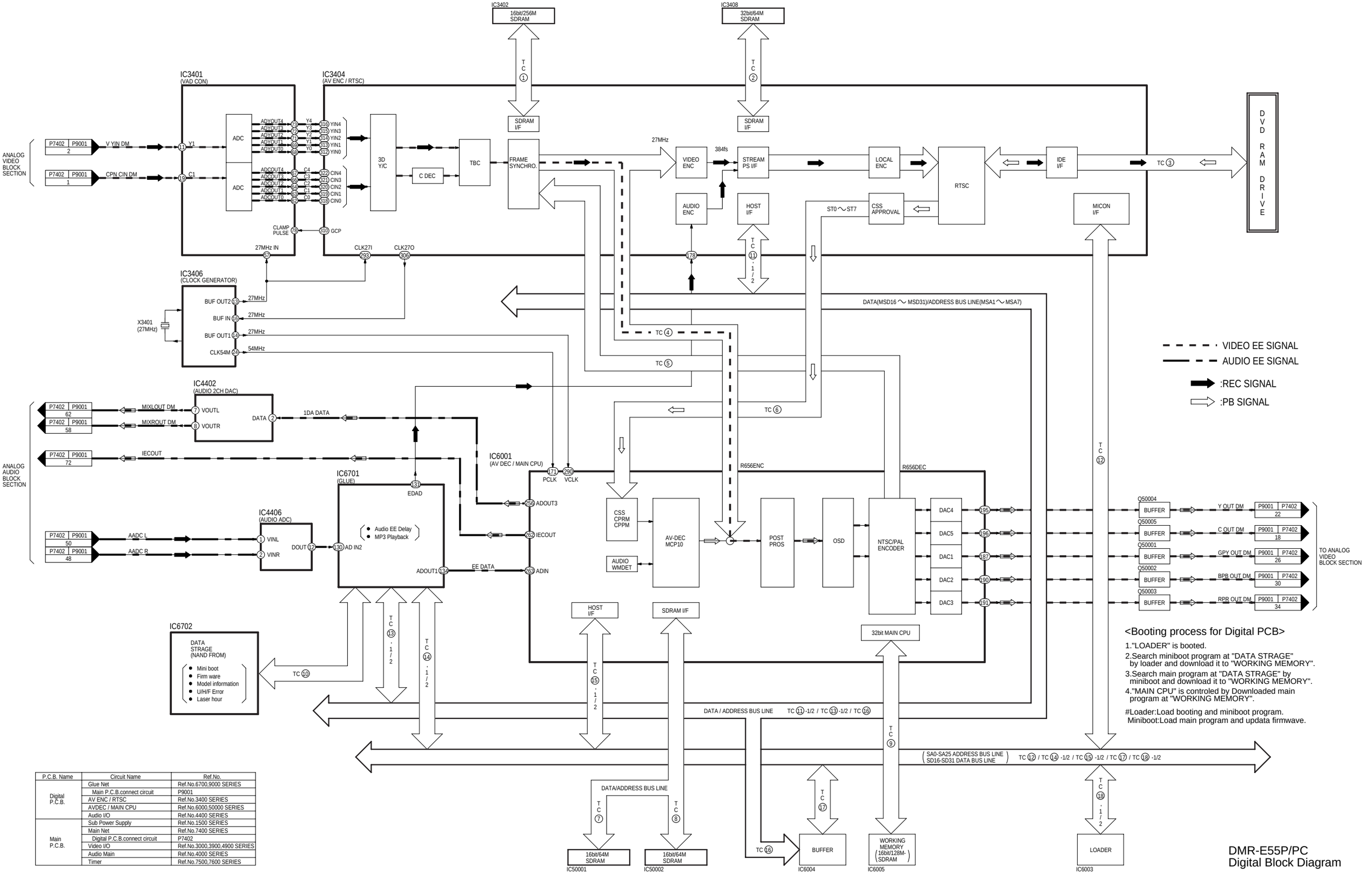
V-SW A → MIX A
SW A (V / Y) → MIX A
Y-SW A → MIX A
C-SW A

SLICER VIDEO A 67 ← 0/6dB ← MIX A
Q7507 AMP → TO TIMER SEC. (IC7501- 109 , 113)

COUT A 69 ← 0dB
Y/V OUT A 65 ← 0dB

CPNCIN DM → P7402 P9001 1
V YIN DM → P7402 P9001 2
→ TO DIGITAL BLOCK SECTION

DMR-E55P/PC
ANALOG VIDEO
BLOCK DIAGRAM



P.C.B. Name	Circuit Name	Ref.No.
Digital P.C.B.	Glue Net	Ref.No.6700,9000 SERIES
	Main P.C.B.connect circuit	P9001
	AV ENC / RTSC	Ref.No.3400 SERIES
	AVDEC / MAIN CPU	Ref.No.6000,50000 SERIES
	Audio I/O	Ref.No.4400 SERIES
Main P.C.B.	Sub Power Supply	Ref.No.1500 SERIES
	Main Net	Ref.No.7400 SERIES
	Digital P.C.B.connect circuit	P7402
	Video I/O	Ref.No.3000,3900,4900 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500,7600 SERIES

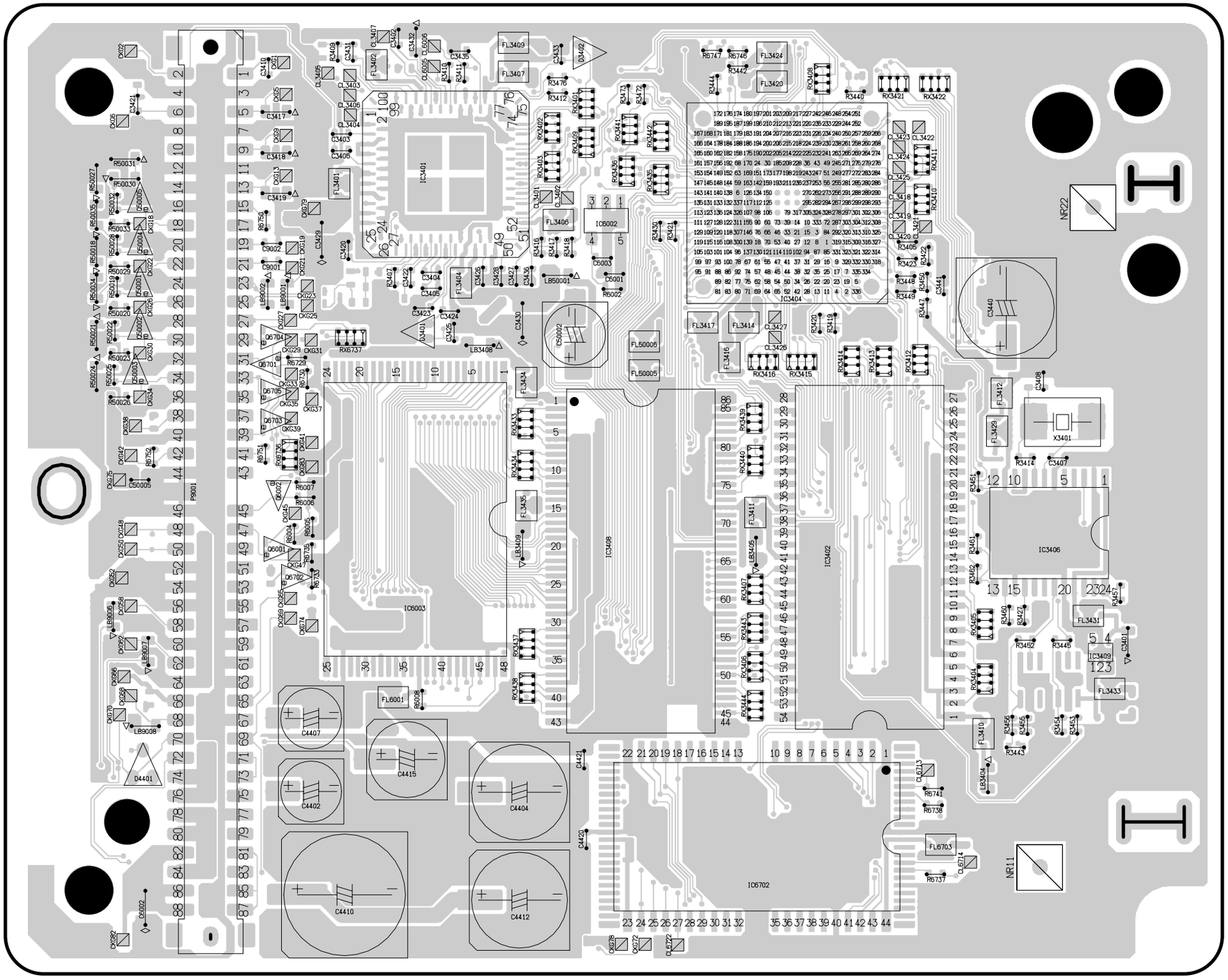
<Booting process for Digital PCB>

1."LOADER" is booted.
2.Search miniboot program at "DATA STRAGE" by loader and download it to "WORKING MEMORY".
3.Search main program at "DATA STRAGE" by miniboot and download it to "WORKING MEMORY".
4."MAIN CPU" is controled by Downloaded main program at "WORKING MEMORY".

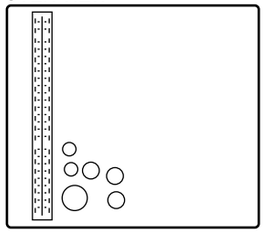
#Loader:Load booting and miniboot program.
Miniboot:Load main program and updata firmwave.

DMR-E55P/PC
Digital Block Diagram

DIGITAL P.C.B.



OVER VIEW

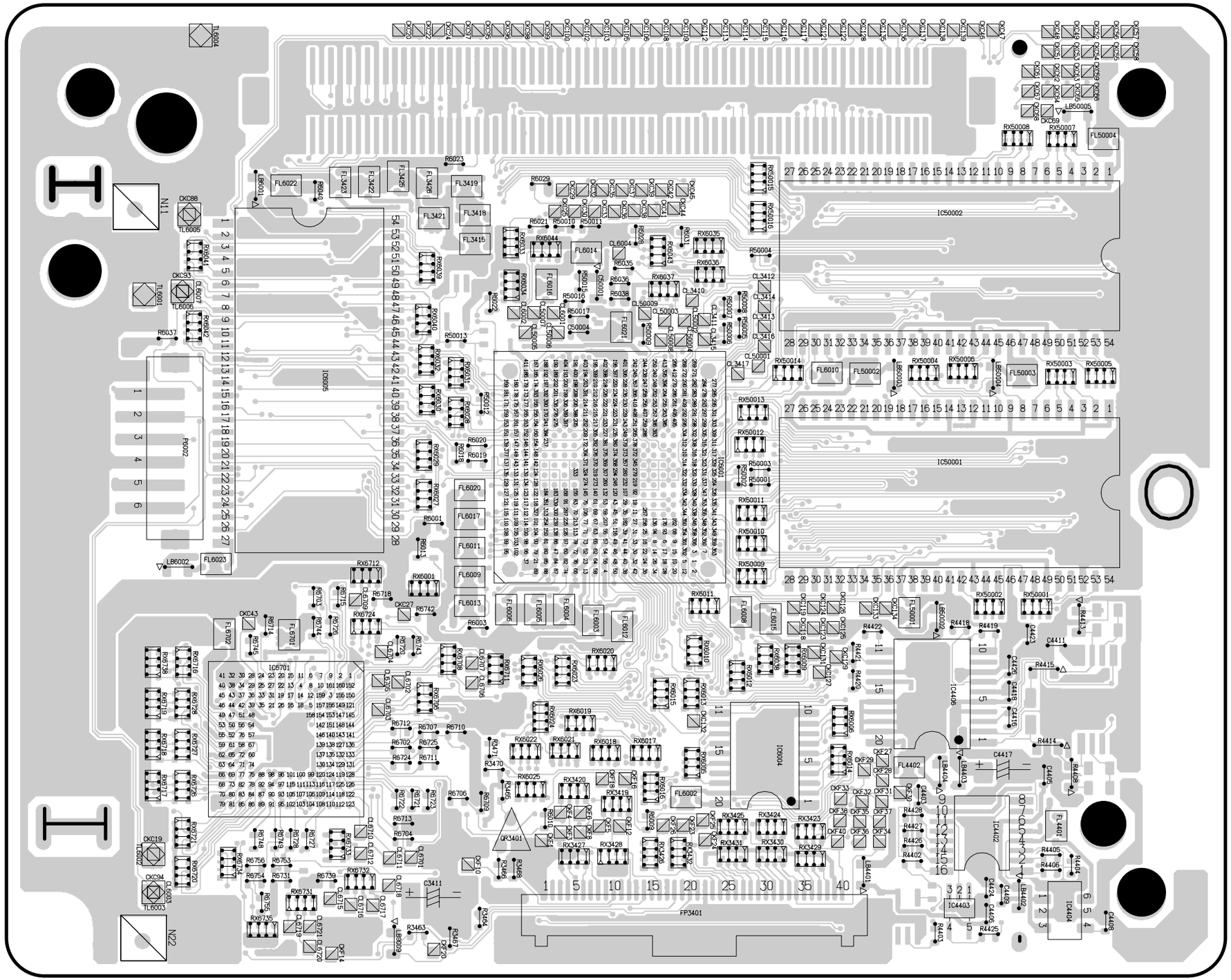


*IC6702 is not supplied in the form of an individual part.
When replacing, be sure to replace the digital p.c.b. and not IC6702 singly.

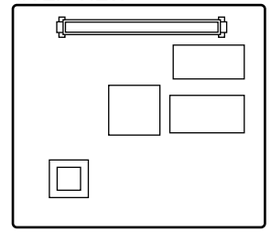
(COMPONENT SIDE)

DMR-E55P/PC
DIGITAL P.C.B. (COMPONENT SIDE)
(E55P:REP3717B,E55PC:RFKBE55PC)

DIGITAL P.C.B.



OVER VIEW



(FOIL SIDE)

DMR-E55P/PC
DIGITAL P.C.B. (FOIL SIDE)
(E55P:REP3717B,E55PC:RFKBE55PC)

DIGITAL P.C.B.

Integrated Circuit		
IC3401	C-2	C
IC3402	B-4	C
IC3404	C-3	C
IC3406	B-4	C
IC3408	B-3	C
IC3409	B-4	C
IC4402	A-4	F
IC4403	A-4	F
IC4404	A-4	F
IC4406	B-4	F
IC6001	B-3	F
IC6002	C-3	C
IC6003	B-2	C
IC6004	A-3	F
IC6005	C-2	F
IC6701	B-2	F
IC6702	A-3	C
IC50001	B-4	F
IC50002	C-4	F
Transistor		
Q6001	B-2	C
Q6002	B-2	C
Q6701	C-2	C
Q6702	B-2	C
Q6703	C-2	C
Q6704	C-2	C
Q6705	C-2	C
Q50001	C-1	C
Q50002	C-1	C
Q50003	C-1	C
Q50004	C-1	C
Q50005	C-1	C
Transistor-resistor		
QR3401	A-2	F
Test Point		
CKC19	A-1	F
CKC20	D-2	F
CKC22	D-2	F
CKC24	D-2	F
CKC25	C-3	F
CKC27	B-2	F
CKC29	C-3	F
CKC30	C-3	F
CKC32	C-3	F
CKC33	C-3	F
CKC35	C-3	F
CKC36	C-3	F
CKC37	C-3	F
CKC38	C-3	F
CKC39	C-3	F
CKC41	C-3	F
CKC42	C-3	F
CKC43	B-2	F
CKC44	C-3	F
CKC45	C-3	F
CKC46	D-4	F
CKC47	D-4	F
CKC48	D-4	F
CKC49	D-4	F
CKC51	D-4	F
CKC52	D-4	F
CKC53	D-4	F
CKC54	D-4	F
CKC55	D-5	F
CKC56	D-5	F
CKC57	D-5	F
CKC58	D-5	F
CKC59	D-4	F
CKC61	D-4	F
CKC62	D-4	F
CKC63	D-4	F
CKC64	D-4	F
CKC65	D-4	F
CKC66	D-4	F
CKC67	D-4	F
CKC68	D-4	F
CKC69	D-4	F
CKC88	C-1	F
CKC93	C-1	F
CKC94	A-1	F
CKC95	D-2	F
CKC96	D-2	F
CKC97	D-2	F
CKC98	D-2	F
CKC99	D-3	F
CKC100	D-3	F
CKC102	D-3	F
CKC103	D-3	F
CKC105	D-3	F
CKC106	D-3	F
CKC108	D-3	F
CKC109	D-3	F
CKC112	D-3	F
CKC113	D-3	F
CKC114	D-3	F
CKC115	D-3	F
CKC116	D-3	F
CKC117	D-3	F
CKC118	B-3	F
CKC119	B-3	F
CKC121	D-4	F
CKC122	D-4	F
CKC123	B-4	F
CKC124	B-4	F
CKC125	B-4	F
CKC126	B-4	F
CKC127	B-4	F
CKC128	D-4	F
CKC129	B-4	F
CKC131	B-4	F
CKC132	B-3	F
CKC133	B-4	F
CKC134	B-4	F
CKC135	D-4	F
CKC136	D-4	F
CKC137	D-4	F
CKC138	D-4	F
CKC139	D-4	F
CKF1	A-3	F
CKF3	A-3	F
CKF4	A-3	F
CKF5	A-3	F
CKF6	A-3	F
CKF8	A-3	F
CKF10	A-2	F
CKF12	A-3	F
CKF14	A-2	F
CKF16	A-3	F
CKF18	A-3	F
CKF20	A-2	F
CKF23	A-3	F
CKF24	A-3	F
CKF25	A-3	F
CKF26	A-3	F
CKF27	A-4	F
CKF28	A-4	F
CKF29	A-4	F
CKF30	A-4	F
CKF31	A-4	F
CKF32	A-4	F
CKF33	A-4	F
CKF34	A-4	F
CKF35	A-4	F
CKF36	A-4	F
CKF37	A-4	F
CKF38	A-4	F
CKF40	A-4	F
CKG1	D-2	C
CKG2	D-1	C
CKG5	D-2	C
CKG6	D-1	C
CKG9	D-2	C
CKG13	C-2	C
CKG18	C-1	C
CKG19	C-2	C
CKG21	C-2	C
CKG22	C-1	C
CKG23	C-2	C
CKG25	C-2	C
CKG26	C-1	C
CKG27	C-2	C
CKG29	C-2	C
CKG30	C-1	C
CKG31	C-2	C
CKG33	C-2	C
CKG34	C-1	C
CKG35	C-2	C
CKG37	C-2	C
CKG38	C-1	C
CKG39	C-2	C
CKG41	C-2	C
CKG42	B-1	C
CKG45	B-2	C
CKG47	B-2	C
CKG48	B-1	C
CKG50	B-1	C
CKG52	B-1	C
CKG58	B-1	C
CKG62	B-1	C
CKG65	B-2	C
CKG66	B-1	C
CKG68	B-1	C
CKG69	B-2	C
CKG70	B-1	C
CKG72	A-3	C
CKG74	B-2	C
CKG75	B-1	C
CKG78	A-3	C
CKG79	C-2	C
CKG82	A-1	C
CKG83	B-2	C
CL3401	C-3	C
CL3402	C-3	C
CL3403	D-2	C
CL3404	D-2	C
CL3405	D-2	C
CL3406	D-2	C
CL3407	D-2	C
CL3410	C-3	F
CL3411	C-3	F
CL3412	C-3	F
CL3413	C-3	F
CL3414	C-3	F
CL3415	C-3	F
CL3416	C-3	F
CL3417	C-3	F
CL3418	C-4	C
CL3419	C-4	C
CL3420	C-4	C
CL3421	C-4	C
CL3422	C-4	C
CL3423	D-4	C
CL3424	D-4	C
CL3425	C-4	C
CL3426	C-3	C
CL3427	C-3	C
CL6001	C-3	F
CL6002	C-2	F
CL6003	A-1	F
CL6004	C-3	F
CL6005	D-2	C
CL6006	D-2	C
CL6007	C-1	F
CL6701	A-2	F
CL6702	B-2	F
CL6703	B-2	F
CL6704	B-2	F
CL6705	B-2	F
CL6706	B-2	F
CL6707	B-2	F
CL6709	B-2	F
CL6710	A-2	F
CL6711	A-2	F
CL6712	A-2	F
CL6713	A-4	C
CL6714	A-4	C
CL6715	A-2	F
CL6716	A-2	F
CL6717	A-2	F
CL6718	A-2	F
CL6719	A-2	F
CL6720	A-2	F
CL6721	A-2	F
CL6722	A-3	C
CL50001	C-3	F
CL50002	C-3	F
CL50003	C-3	F
CL50004	C-3	F
CL50005	C-3	F
CL50006	C-3	F
CL50007	C-3	F
CL50008	C-3	F
CL50009	C-3	F
TL6001	C-1	F
TL6002	A-1	F
TL6003	A-1	F
TL6004	D-1	F
TL6005	C-1	F
TL6006	C-1	F
Connector		
FP3401	A-3	F
P6002	C-1	F
P9001	B-1	C
Diode		
D3401	C-2	C
D3402	D-3	C
D4401	A-1	C
Crystal Osillator		
X3401	C-4	C
Coil		
LB3404	A-4	C
LB3405	B-3	C
LB3408	C-2	C
LB3409	B-2	C
LB4401	A-4	F
LB4402	A-4	F
LB4403	A-4	F
LB4404	A-4	F
LB6001	C-2	F
LB6002	B-1	F
LB9001	C-2	C
LB9002	C-2	C
LB9006	B-1	C
LB9007	B-1	C
LB9008	B-1	C
LB9009	A-2	F
LB50001	C-3	C
LB50002	B-4	F
LB50003	C-4	F
LB50004	C-4	F
LB50005	D-4	F
Filter		
FL3401	C-2	C
FL3402	D-2	C
FL3404	C-2	C
FL3406	C-3	C
FL3407	D-2	C
FL3409	D-2	C
FL3410	B-4	C
FL3411	B-3	C
FL3412	C-4	C
FL3414	C-3	C
FL3415	C-2	F
FL3416	C-3	C
FL3417	C-3	C
FL3418	C-2	F
FL3419	C-2	F
FL3420	D-3	C
FL3421	C-2	F
FL3422	C-2	F
FL3423	C-2	F
FL3424	D-3	C
FL3425	C-2	F
FL3426	C-2	F
FL3429	C-4	C
FL3431	B-4	C
FL3433	B-4	C
FL3434	C-2	C
FL3435	B-2	C
FL4401	A-4	F
FL4402	A-4	F
FL6001	B-2	C
FL6002	A-3	F
FL6003	B-3	F
FL6004	B-3	F
FL6005	B-3	F
FL6006	B-2	F
FL6008	B-3	F
FL6009	B-2	F
FL6010	C-4	F
FL6011	B-2	F
FL6012	B-3	F
FL6013	B-2	F
FL6014	C-3	F
FL6015	B-3	F
FL6016	C-3	F
FL6017	B-2	F
FL6020	B-2	F
FL6021	C-3	F
FL6022	C-2	F
FL6023	B-1	F
FL6701	B-2	F
FL6702	B-1	F
FL6703	A-4	C
FL50001	B-4	F
FL50002	C-4	F
FL50003	C-4	F
FL50004	D-5	F
FL50005	C-3	C
FL50006	C-3	C
Capacitor		
C3401	B-5	C
C3402	D-2	C
C3403	D-2	C
C3404	C-2	C
C3405	C-2	C
C3406	D-2	C
C3407	B-4	C
C3408	C-4	C
C3410	D-2	C
C3411	A-2	F
C3417	D-2	C
C3418	D-2	C
C3419	C-2	C
C3420	C-2	C
C3421	D-1	C
C3422	C-2	C
C3423	C-2	C
C3424	C-2	C
C3425	C-2	C
C3426	C-2	C
C3427	C-2	C
C3428	C-2	C
C3429	C-2	C
C3430	C-2	C
C3431	D-2	C
C3432	D-2	C
C3433	D-3	C
C3435	D-2	C
C3436	C-2	C
C4402	A-2	C
C4403	A-4	F
C4404	A-2	C
C4405	A-4	F
C4406	A-4	F
C4408	A-5	F
C4409	A-4	F
C4410	A-2	C
C4411	B-4	F
C4412	A-2	C
C4415	A-2	C
C4416	B-4	F
C4417	A-4	F
C4418	B-4	F
C4421	A-3	C
C4423	B-4	F
C4424	A-4	F
C4426	B-4	F
C6001	C-3	C
C6002	A-1	C
C6003	C-3	C
C9001	C-2	C
C9002	C-2	C
C50001	C-3	F
C50002	C-3	C
C50004	C-3	F
C50005	B-1	C
Resistor		
R3405	C-4	C
R3407	C-2	C
R3409	D-2	C
R3410	D-2	C
R3411	D-2	C
R3412	D-3	C
R3414	B-4	C
R3416	C-3	C
R3417	C-3	C
R3418	C-3	C
R3419	C-4	C
R3420	C-3	C
R3421	C-3	C
R3422	C-4	C
R3423	C-4	C
R3427	B-4	C
R3430	C-3	C
R3440	D-4	C
R3442	D-3	C
R3443	A-4	C
R3444	D-3	C
R3445	B-4	C
R3447	C-4	C
R3448	C-4	C
R3449	C-4	C
R3450	C-4	C
R3451	B-4	C
R3452	B-4	C
R3453	B-4	C
R3454	B-4	C
R3455	B-4	C
R3456	B-4	C
R3457	B-5	C
R3460	B-4	C
R3461	B-4	C
R3462	B-4	C
R3463	A-2	F
R3464	A-2	F
R3465	A-2	F
R3466	A-2	F
R3467	A-2	F
R3468	A-2	F
R3470	A-2	F
R3471	A-2	F
R3472	D-3	C
R3473	D-3	C
R3476	D-3	C
R4402	A-4	F
R4403	A-4	F
R4404	A-4	F
R4405	A-4	F
R4406	A-4	F
R4408	A-4	F
R4413	B-4	F
R4414	A-4	F
R4415	B-4	F
R4418	B-4	F
R4419	B-4	F
R4420	B-4	F
R4421	B-4	F
R4422	B-4	F
R4425	A-4	F
R4426	A-4	F
R4427	A-4	F
R4428	A-4	F
R6001	B-2	F
R6002	C-3	C
R6003	B-2	F
R6004	B-2	C
R6005	B-2	C
R6006	B-2	C
R6007	B-2	C
R6008	B-2	C
R6009	A-3	F
R6010	A-3	F
R6018	B-2	F
R6019	B-2	F
R6020	C-2	F
R6021	C-3	F
R6022	C-2	F
R6028	C-3	F
R6029	C-3	F
R6031	C-3	F
R6035	C-3	F
R6036	C-3	F
R6037	C-1	F
R6038	C-3	F
R6040	C-2	F
R6702	A-2	F
R6703	B-2	F
R6704	A-2	F
R6706	A-2	F
R6707	B-2	F
R6709	A-2	F
R6710	B-2	F
R6711	A-2	F
R6712	B-2	F
R6713	A-2	F
R6714	B-2	F
R6715	B-2	F
R6718	B-2	F
R6720	B-2	F
R6721	A-2	F
R6722	A-2	F
R6723	A-2	F
R6724	A-2	F
R6725	A-2	F
R6726	B-2	F
R6727	A-2	F
R6728	A-2	F
R6729	C-2	C
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R6732	A-2	F
R6733	A-2	F
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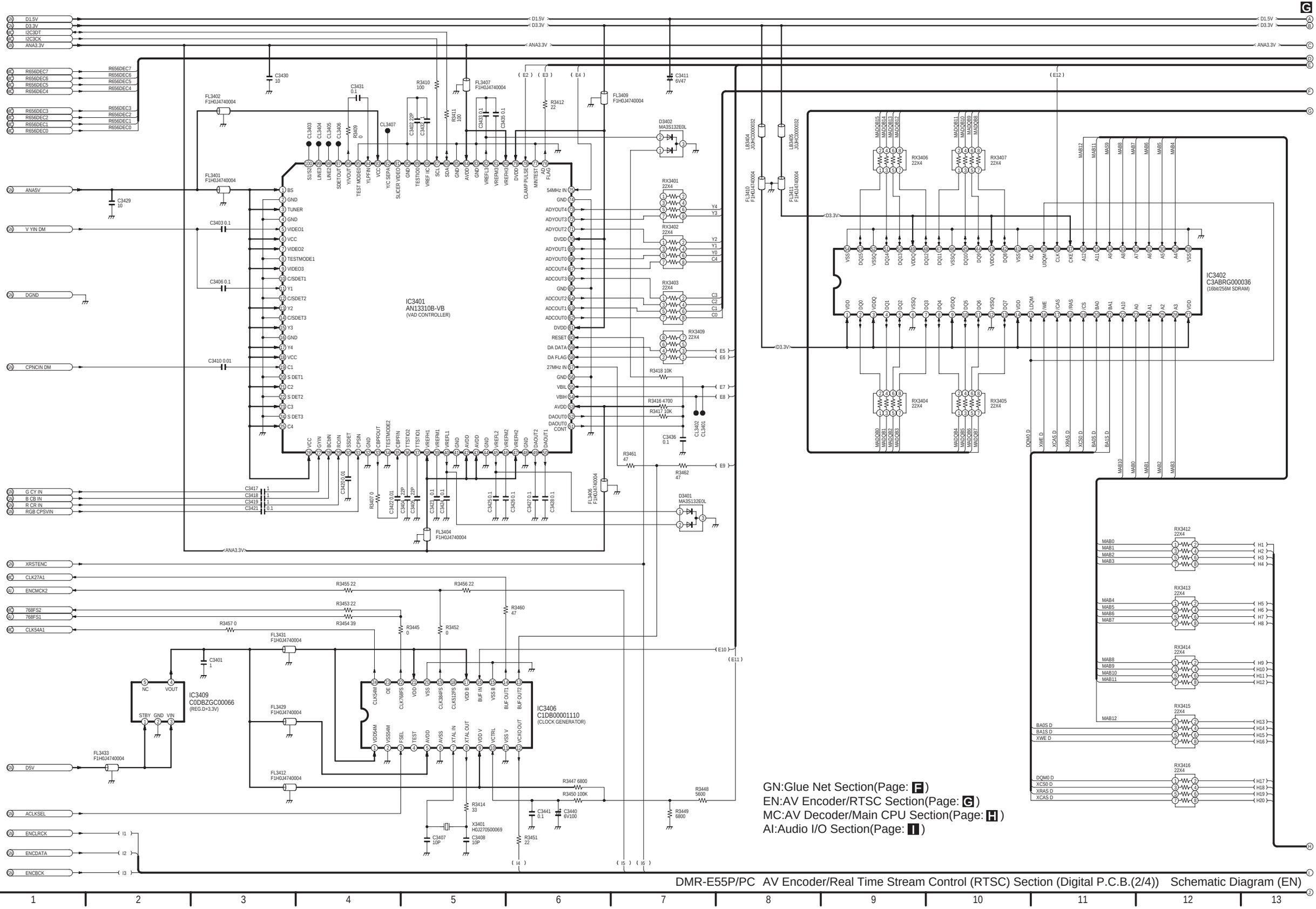
R6737	A-4	C
R6738	A-4	C
R6739	A-2	F
R6741	A-4	C
R6742	B-2	F
R6743	B-2	F
R6744	B-2	F
R6745	B-2	F
R6746	D-3	C
R6747	D-3	C
R6748	A-2	F
R6749	A-2	F
R6750	C-2	C
R6751	C-2	C
R6752	B-1	C
R6753	A-2	F
R6754	A-2	F
R6755	A-2	F
R6756	A-2	F
R50001	B-3	F
R50002	B-3	F
R50003	B-3	F
R50004	C-3	F
R50005	C-3	F
R50006	C-3	F
R50007	C-3	F
R50008	C-3	F
R50009	C-3	F
R50010	C-3	F
R50011	C-3	F
R50012	C-2	F
R50013	C-2	F
R50015	C-3	F
R50016	C-3	F
R50017	C-3	F
R50018	C-1	C
R50019	C-1	C
R50020	C-1	C
R50021	C-1	C
R50022	C-1	C
R50023	C-1	C
R50024	C-1	C
R50025	C-1	C
R50026	C-1	C
R50027	C-1	C
R50028	C-1	C
R50029	C-1	C
R50030	C-1	C
R50031	D-1	C
R50032	C-1	C
R50033	C-1	C
R50034	C-1	C
R50035	C-1	C
RX3401	D-3	C
RX3402	D-3	C
RX3403	C-3	C
RX3404	B-4	C
RX3405	B-4	C
RX3406	B-3	C
RX3407	B-3	C
RX3408	D-4	C
RX3409	D-3	C
RX3410	C-4	C
RX3411	D-4	C
RX3412	C-4	C
RX3413	C-4	C
RX3414	C-4	C
RX3415	C-3	C
RX3416	C-3	C
RX3419	A-3	F
RX3420	A-3	F
RX3421	D-4	C
RX3422	D-4	C
RX3423	A-4	F
RX3424	A-3	F
RX3425	A-3	F
RX3426	A-3	F
RX3427	A-3	F
RX3428	A-3	F
RX3429	A-4	F
RX3430	A-3	F
RX3431	A-3	F
RX3432	A-3	F
RX3433	C-2	C
RX3434	B-2	C
RX3435	C-3	C
RX3436	C-3	C
RX3437	B-2	C
RX3438	B-2	C
RX3439	C-3	C
RX3440	B-3	C
RX3441	D-3	C
RX3442	D-3	C
RX3443	B-3	C
RX3444	B-3	C
RX6001	B-2	F
RX6005	A-3	F
RX6006	B-4	F
RX6009	B-3	F
RX6010	B-3	F
RX6011	B-3	F
RX6012	B-3	F
RX6013	B-3	F
RX6014	A-4	F
RX6015	B-3	F
RX6016	A-3	F
RX6017	A-3	F
RX6018	A-3	F
RX6019	B-3	F
RX6020	B-3	F
RX6021	A-3	F
RX6022	A-3	F
RX6023	B-3	F
RX6024	B-3	F
RX6025	A-3	F
RX6026	B-3	F
RX6027	B-2	F
RX6028	C-2	F
RX6029	B-2	F
RX6030	C-2	F
RX6031	C-2	F
RX6032	C-2	F
RX6033	C-2	F
RX6034	C-2	F
RX6035	C-3	F
RX6036	C-3	F
RX6037	C-3	F
RX6038	B-3	F
RX6039	C-2	F
RX6040	C-2	F
RX6041	C-1	F
RX6042	C-1	F
RX6043	C-3	F
RX6044	C-3	F
RX6706	B-2	F
RX6708	B-2	F
RX6711	B-2	F
RX6712	B-2	F
RX6716	B-1	F
RX6717	A-1	F
RX6718	A-1	F
RX6719	B-1	F
RX6720	A-1	F
RX6721	A-1	F
RX6724	B-2	F
RX6726	A-1	F
RX6727	A-1	F
RX6728	B-1	F
RX6731	A-2	F
RX6732	A-2	F
RX6733	A-2	F
RX6734	A-1	F
RX6735	A-2	F
RX6736	B-2	C
RX6737	C-2	C
RX6738	B-1	F
RX50001	B-4	F
RX50002	B-4	F
RX50003	C-4	F
RX50004	C-4	F
RX50005	C-5	F
RX50006	C-4	F
RX50007	D-4	F
RX50008	D-4	F
RX50009	B-3	F
RX50010	B-3	F
RX50011	B-3	F
RX50012	C-3	F
RX50013	C-3	F
RX50014	C-3	F
RX50015	C-3	F
RX50016	C-3	F

ADDRESS INFORMATION
C……COMPONENT SIDE
F……FOIL SIDE


IC3401
AN13310B-VB
(VAD CONTROLLER)
IC3402
C3ABRG000036
(16bit/256M SDRAM)
IC3406
C1DB00001110
(CLOCK GENERATOR)
IC3409
C0DBZGC00066
(REG.D+3.3V)
GN:Glue Net Section(Page: F)
EN:AV Encoder/RTSC Section(Page: G)
MC:AV Decoder/Main CPU Section(Page: H)
AI:Audio I/O Section(Page: I)

GN:Glue Net Section(Page: F)
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MC:AV Decoder/Main CPU Section(Page: H)
AI:Audio I/O Section(Page: I)

IC3404
MN85573
(AV ENC/RTSC)

GN:Glue Net Section(Page: F)
EN:AV Encoder/RTSC Section(Page: G)
MC:AV Decoder/Main CPU Section(Page: H)
AI:Audio I/O Section(Page: I)

G

R656ENC7 R656ENC6 R656ENC5 R656ENC4 R656ENC3 R656ENC2 R656ENC1 R656ENC0 (MC)

STEN STCLK SVALID (MC)

STD7 STD6 STD5 STD4 STD3 STD2 STD1 STD0 (MC)

XMRE XMWE3 XVDSPCS XVDSPDK XIRQ6 XRTSCINT (MC)

MSD31 MSD30 MSD29 MSD28 MSD27 MSD26 MSD25 MSD24 MSD23 MSD22 MSD21 MSD20 MSD19 MSD18 MSD17 MSD16 (GN)

SA12 SA11 SA10 SA9 SA8 SA7 SA6 SA5 MSA4 MSA3 MSA2 MSA1 (MC)

XIRQ5 (MC)

XATRESET (EN)

D3.3V

D1 D3 D2 D4 — RX3419 22X4 — XIOR R, XIOW R, XDACK R, DA2 R
D5 D7 D6 D8 — RX3420 22X4 — DA1 R, DA0 R, XDCS1, XDCS0
D12 D14 D13 D15 — RX3421 22X4 — STD7, STD6, STD5, STD4
D16 D18 D17 D19 — RX3422 22X4 — STD3, STD2, STD1, STD0
D9 D10 D11 — RX3408 22X4 — STEN, SVALID, STCLK
C1 C3 C2 C4 — RX3410 22X4 — CL3421, CL3420, CL3419, CL3418; CL3410, CL3411, CL3412, CL3413; R656ENC7, R656ENC6, R656ENC5, R656ENC4
C5 C7 C6 C8 — RX3411 22X4 — CL3422, CL3423, CL3424, CL3425; CL3417, CL3416, CL3415, CL3414; R656ENC3, R656ENC2, R656ENC1, R656ENC0

IC3408
C3ABPJ000048
(32bit/64M SDRAM)

LB3409 J0JHC0000032 — FL3435 F1H0J4740004
LB3408 J0JHC0000032 — FL3434 F1H0J4740004

RX3439 22X4 — MDQA15, MDQA14, MDQA13, MDQA12
RX3440 22X4 — MDQA11, MDQA10, MDQA9, MDQA8
RX3441 22X4 — MAA8, MAA7, MAA6
RX3442 22X4 — MAA5, MAA4, MAA3
RX3443 22X4 — MDQA31, MDQA30, MDQA29, MDQA28
RX3444 22X4 — MDQA27, MDQA26, MDQA25, MDQA24
RX3433 22X4 — MDQA0, MDQA1, MDQA2, MDQA3
RX3434 22X4 — MDQA4, MDQA5, MDQA6, MDQA7
RX3435 22X4 — MDQA16, MDQA17, MDQA18, MDQA19
RX3436 22X4 — MAA10, MAA0, MAA1, MAA2
RX3437 22X4 — MDQA16, MDQA17, MDQA18, MDQA19
RX3438 22X4 — MDQA20, MDQA21, MDQA22, MDQA23

R3472 22
R3473 22

RAMD7 RAMD8 RAMD6 RAMD9 — RX3423 22X4
RAMD5 RAMD10 RAMD4 RAMD11 — RX3424 22X4
RAMD3 RAMD12 RAMD2 RAMD13 — RX3425 22X4
RAMD1 RAMD14 RAMD0 RAMD15 — RX3426 22X4
R3471 33

R3470 10K
R3464 1K
R3465 3300
R3466 82
QR3401 UNR521L00L (SWITCH)
R3468 10K
R3467 5600
R3463 82

TO DVD RAM DRIVE UNIT FP3401

40	RESET-
39	GND
38	DD7
37	DD8
36	DD6
35	DD9
34	DD5
33	DD10
32	DD4
31	DD11
30	DD3
29	DD12
28	DD2
27	DD13
26	DD1
25	DD14
24	DD0
23	DD15
22	GND
21	——
20	DMARQ
19	GND
18	DIOW-
17	GND
16	DIOR-
15	GND
14	IORDY
13	CSEL
12	DMACK-
11	GND
10	INTRQ
9	——
8	DA1
7	——
6	DA0
5	DA2
4	CS0-
3	CS1-
2	——
1	GND

E13: XIOW R, XIOR R
E14: XDACK R, DA1 R, DA0 R, DA2 R, XDCS0, XDCS1

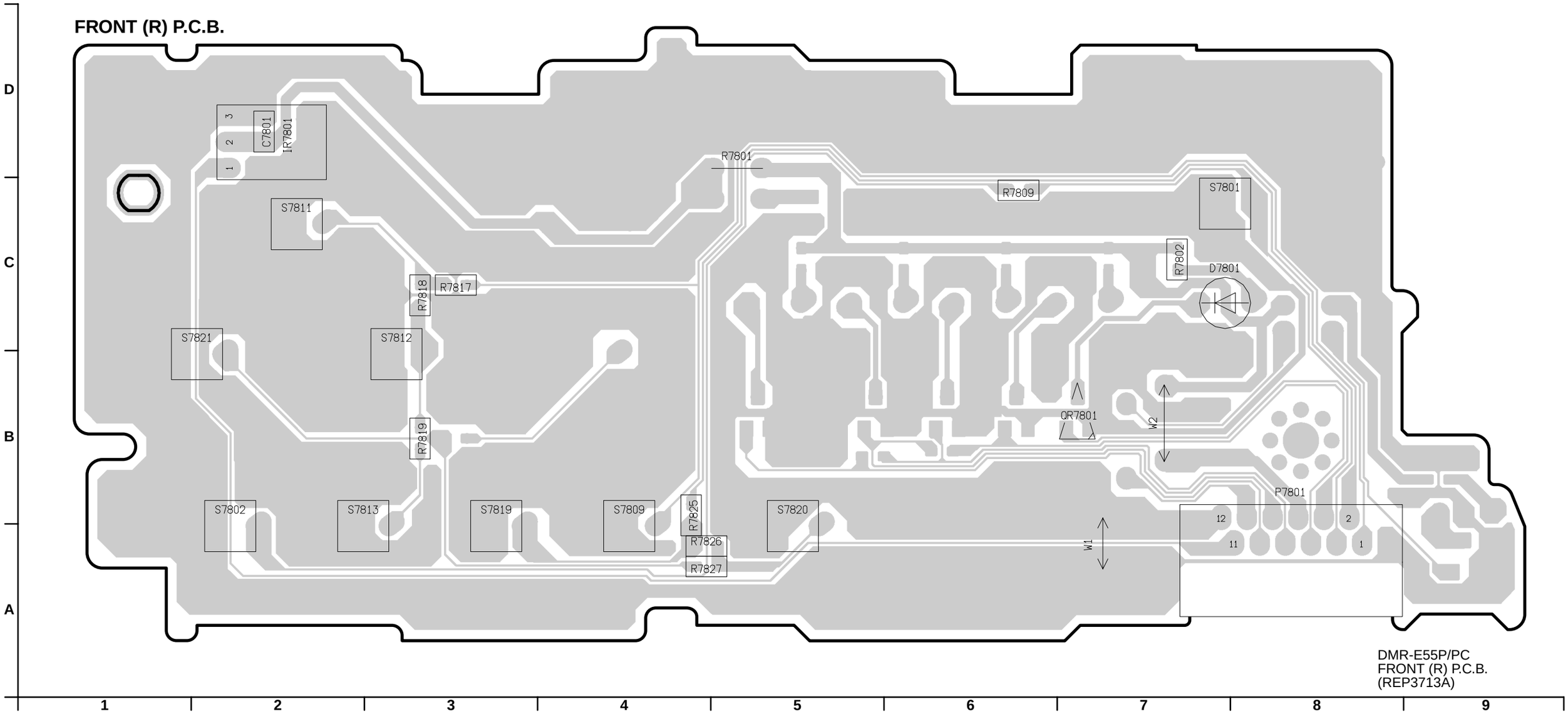
RX3427 10KX4 — RX3428 10KX4 — RX3429 10KX4 — RX3430 10KX4 — RX3431 10KX4 — RX3432 10KX4

I10 I11 I8 I9 I14 I15 I13 I12 I7

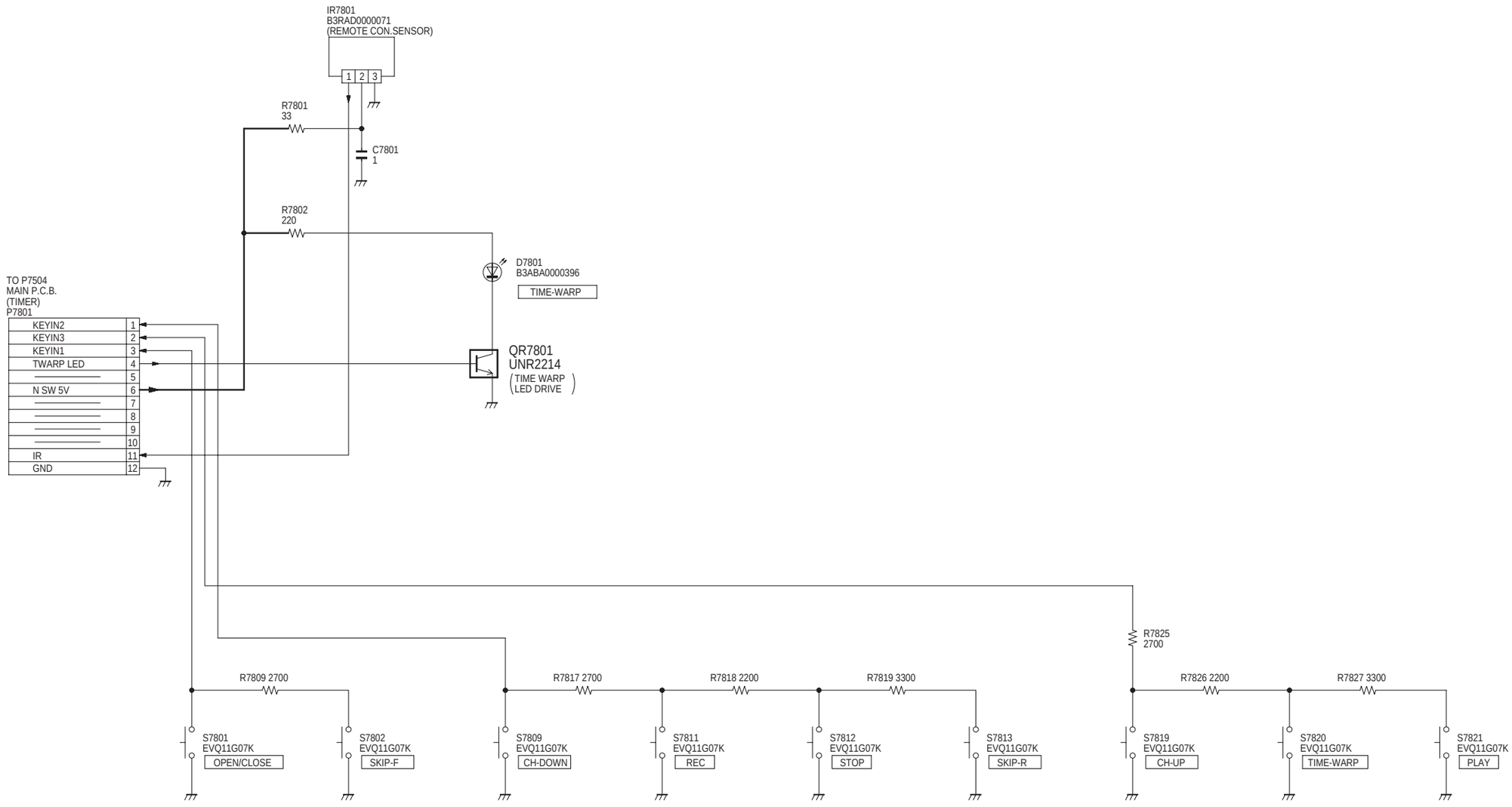
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E55P/PC
AV Encoder/Real Time Stream Control (RTSC) Section
(Digital P.C.B.(2/4))
Schematic Diagram (EN)

FRONT (R) P.C.B.



DMR-E55P/PC
FRONT (R) P.C.B.
(REP3713A)

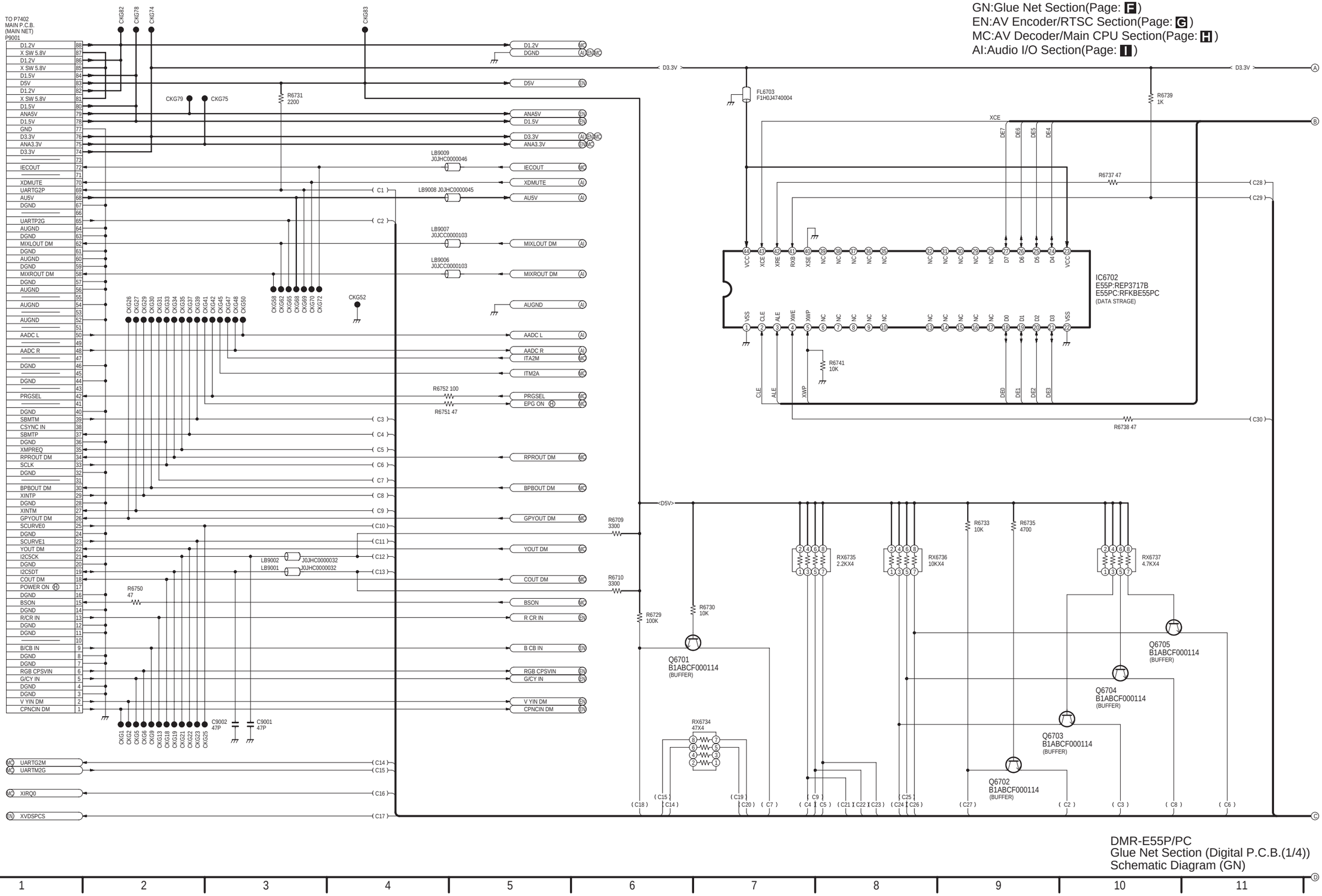


NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

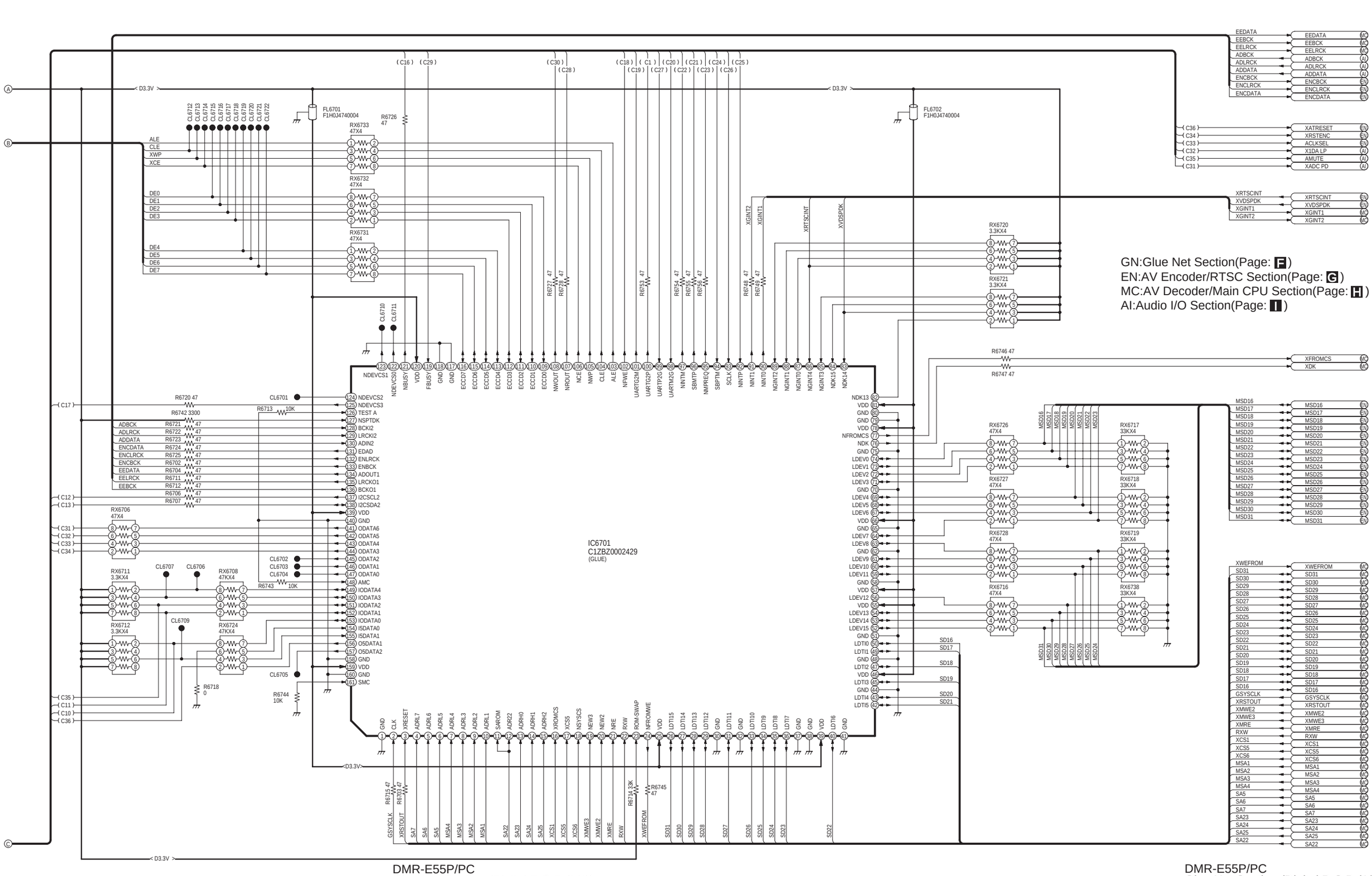
DMR-E55P/PC
Front (R)
Schematic Diagram

Ref No. / MODE	QR7801		
	E	C	B
REC	0	3.5	0
PLAY	0	3.5	0
STOP	0	3.5	0

GN:Glue Net Section(Page: F)
EN:AV Encoder/RTSC Section(Page: G)
MC:AV Decoder/Main CPU Section(Page: H)
AI:Audio I/O Section(Page: I)



DMR-E55P/PC
Glue Net Section (Digital P.C.B.(1/4))
Schematic Diagram (GN)



DMR-E55P/PC
Glue Net Section (Digital P.C.B.(1/4))
Schematic Diagram (GN)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E55P/PC
Glue Net Section (Digital P.C.B.(1/4))
Schematic Diagram (GN)

TU7401
U/V TUNER

1	AGC
2	TU
3	-
4	SCL
5	SDA
6	-
7	REG 5V
8	-
9	BTL
10	-
11	IF OUT
12	IF IN
13	REG 5V
14	-
15	GND
16	AFT
17	AGC OUT
18	VIDEO OUT
19	-
20	GND
21	SCL
22	SDA
23	-
24	-
25	-
26	R OUT
27	L OUT

P7402		P9001	
CPNCIN DM	1	1	CPNCIN DM
V YIN DM	2	2	V YIN DM
DGND	3	3	DGND
DGND	4	4	DGND
G/CY IN	5	5	G/CY IN
RGB CPSVIN	6	6	RGB CPSVIN
DGND	7	7	DGND
DGND	8	8	DGND
B/CB IN	9	9	B/CB IN
	10	10	
DGND	11	11	DGND
DGND	12	12	DGND
R/CR IN	13	13	R/CR IN
DGND	14	14	DGND
BSON	15	15	BSON
DGND	16	16	DGND
POWER ON Ⓗ	17	17	POWER ON Ⓗ
COUT DM	18	18	COUT DM
I2C5DT	19	19	I2C5DT
DGND	20	20	DGND
I2C5CK	21	21	I2C5CK
YOUT DM	22	22	YOUT DM
SCURVE1	23	23	SCURVE1
DGND	24	24	DGND
SCURVE0	25	25	SCURVE0
GPYOUT DM	26	26	GPYOUT DM
XINTM	27	27	XINTM
DGND	28	28	DGND
XINTP	29	29	XINTP
BPBOUT DM	30	30	BPBOUT DM
	31	31	
DGND	32	32	DGND
SCLK	33	33	SCLK
RPROUT DM	34	34	RPROUT DM
XMPREQ	35	35	XMPREQ
DGND	36	36	DGND
SBMTP	37	37	SBMTP
CSYNC IN	38	38	CSYNC IN
SBMTM	39	39	SBMTM
DGND	40	40	DGND
	41	41	
PRGSEL	42	42	PRGSEL
	43	43	
DGND	44	44	DGND
	45	45	
DGND	46	46	DGND
	47	47	
AADC R	48	48	AADC R
	49	49	
AADC L	50	50	AADC L
	51	51	
AUGND	52	52	AUGND
	53	53	
AUGND	54	54	AUGND
	55	55	
AUGND	56	56	AUGND
DGND	57	57	DGND
MIXROUT DM	58	58	MIXROUT DM
DGND	59	59	DGND
AUGND	60	60	AUGND
DGND	61	61	DGND
MIXLOUT DM	62	62	MIXLOUT DM
DGND	63	63	DGND
AUGND	64	64	AUGND
UARTP2G	65	65	UARTP2G
	66	66	
DGND	67	67	DGND
AU5V	68	68	AU5V
UARTG2P	69	69	UARTG2P
XDMUTE	70	70	XDMUTE
	71	71	
IECOUT	72	72	IECOUT
	73	73	
D3.3V	74	74	D3.3V
ANA3.3V	75	75	ANA3.3V
D3.3V	76	76	D3.3V
GND	77	77	GND
D1.5V	78	78	D1.5V
ANA5V	79	79	ANA5V
D1.5V	80	80	D1.5V
X SW 5.8V	81	81	X SW 5.8V
D1.2V	82	82	D1.2V
D5V	83	83	D5V
D1.5V	84	84	D1.5V
X SW 5.8V	85	85	X SW 5.8V
D1.2V	86	86	D1.2V
X SW 5.8V	87	87	X SW 5.8V
D1.2V	88	88	D1.2V

DIGITAL P.C.B.

P.C.B.Name	Circuit Name	Ref.No.
Digital P.C.B.	AV ENC/RTSC	Ref.No.3400 SERIES
	AVDEC/MAIN CPU	Ref.No.6000,50000 SERIES
	Audio I/O	Ref.No.4400 SERIES
	Glue Net	Ref.No.6700,9000 SERIES

FP3401		FP601	
RESET-	40	1	RESET-
GND	39	2	GND
DD7	38	3	DD7
DD8	37	4	DD8
DD6	36	5	DD6
DD9	35	6	DD9
DD5	34	7	DD5
DD10	33	8	DD10
DD4	32	9	DD4
DD11	31	10	DD11
DD3	30	11	DD3
DD12	29	12	DD12
DD2	28	13	DD2
DD13	27	14	DD13
DD1	26	15	DD1
DD14	25	16	DD14
DD0	24	17	DD0
DD15	23	18	DD15
GND	22	19	GND
	21	20	KEY
DMARQ	20	21	DMARQ
GND	19	22	GND
DIOW-	18	23	DIOW-
GND	17	24	GND
DIOR-	16	25	NIOR-
GND	15	26	GND
IORDY	14	27	IORDY
CSEL	13	28	CSEL
DMACK-	12	29	DMACK-
GND	11	30	GND
INTRQ	10	31	INTRQ
	9	32	IOCS16-
DA1	8	33	DA1
	7	34	PD1AG-
DA0	6	35	DA0
DA2	5	36	DA2
CS0-	4	37	CS0-
CS1-	3	38	CS1-
	2	39	DASP-
GND	1	40	GND

DVD RAM DRIVE

MAIN P.C.B.

P.C.B.Name	Circuit Name	Ref.No.
Main P.C.B.	Main Net	Ref.No.7400 SERIES
	Sub Power Supply	Ref.No.1500 SERIES
	Video I/O	Ref.No.3000,3900,4900 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500,7600 SERIES

P102		P1501	
+12V	1	1	DR12V
GND	2	2	GND
M GND	3	3	GND
+5V	4	4	DR5V
+5V	5	5	DR5V
M GND	6	6	GND
GND	7	7	GND
+12V	8	8	DR12V

FAN MOTOR

P7503	
FANDCOUT	1
GND	2
FANLOCK	3

P7504		P7801	
KEYIN2	1	1	KEYIN2
KEYIN3	2	2	KEYIN3
KEYIN1	3	3	KEYIN1
TWARP LED	4	4	TWARP LED
	5	5	
N SW 5V	6	6	N SW 5V
	7	7	
	8	8	
	9	9	
	10	10	
IR	11	11	IR
GND	12	12	GND

FRONT(R) P.C.B.

P1502		P1102	
	1	1	
X SW13V	2	2	X SW13V
X SW5.8V	3	3	X SW5.8V
X SW5.8V	4	4	X SW5.8V
GND	5	5	GND
GND	6	6	GND
GND	7	7	GND
GND	8	8	GND
GND	9	9	GND
DR P ON Ⓗ	10	10	DR P ON Ⓗ
P SAVE Ⓛ	11	11	P SAVE Ⓛ
DR12V	12	12	DR12V
DR12V	13	13	DR12V
DR GND	14	14	DR GND
DR GND	15	15	DR GND
DR5V	16	16	DR5V
DR5V	17	17	DR5V
POWER ON Ⓗ	18	18	POWER ON Ⓗ
D 3.3V	19	19	D 3.3V
D 3.3V	20	20	D 3.3V
D 1.8V	21	21	D 1.8V
D 1.8V	22	22	D 1.8V
	23	23	

P1101 N A

POWER P.C.B.

DMR-E55P/PC
Interconnection Schematic Diagram

MAIN P.C.B.

Integrated Circuit	
IC1502	E-7
IC1505	C-2
IC1506	B-6
IC1507	C-2
IC1508	B-5
IC1509	C-5
IC1510	C-5
IC3001	E-6
IC4001	E-4
IC4004	D-5
IC4005	E-2
IC7404	B-8
IC7501	C-3
IC7502	A-3
IC7503	C-2
IC7505	C-2
IC7506	E-1
Transistor	
Q4001	E-2
Q4002	F-2
Q4003	E-2
Q7401	D-8
Q7503	A-2
Q7504	B-2
Q7507	A-7
Q7508	A-6
Q7512	E-1
Transistor-resistor	
QR4001	D-2
QR4002	D-2
QR4003	D-2
QR4004	D-2
QR7502	C-2
Test Point	
CL3001	D-6
CL7406	C-6
CL7407	C-6
CL7501	C-4
CL7502	C-4
TL7401	E-8
TL7501	A-4
TL7502	A-2
TL7503	B-4
TL7504	C-4
TL7505	C-2
TL7506	B-4
TL7507	D-7
TL7508	C-3
TL7509	C-3
TL7510	C-3
TL7511	C-3
TL7512	C-4
TL7513	A-4
TL7514	A-4
TL7515	B-4
TL7516	B-4
TW7501	B-1
Connector	
JK3901	F-6
JK3902	F-3
JK3903	F-4
JK3904	A-7
P1501	C-2
P1502	C-1
P7402	B-6
P7503	E-1
P7504	A-1
Diode	
D1501	B-2
D4001	E-2
D7401	E-8
D7501	B-2
D7502	B-2
D7504	B-2
D7505	B-2
D7506	B-2
D7507	C-2
D7511	C-2
Crystal Osillator	
X7501	B-4
X7502	B-4
IC Protector	
IP7501	B-2
Coil	
L1501	C-1
L3001	E-7
L3002	F-6
L4901	F-4
L7401	C-5
L7502	B-1
L7503	B-2
L7508	C-3
LB1501	C-1
LB1503	C-1
LB1504	B-1
LB1505	B-1
LB3905	F-6
LB3906	F-6
LB3907	F-6
LB3908	F-6
LB3909	F-6
LB3910	F-6
LB3915	F-3
LB3917	F-3
LB3918	F-3
LB3924	F-5
LB3925	F-4
LB3926	F-4
LB3927	A-7
LB3928	A-7
LB3929	A-7
LB4903	F-5
LB4904	F-5
LB4905	F-5
LB4906	F-5
LB4907	F-2
LB4909	F-2
LB4911	A-6
LB4912	A-6
LB7402	F-7
LB7409	B-6
LB7410	B-6
LB7411	B-6
LB7412	B-6
LB7413	B-5
LB7501	C-4
LB7502	B-4
LB7503	B-2
LB7504	B-2
LB7505	B-2
LB7506	B-2
LB7507	B-3
LB7508	B-3
Capacitor	
C1503	E-7
C1505	F-7
C1512	B-2
C1513	C-2
C1514	C-2
C1515	C-2
C1516	B-6
C1518	B-6
C1519	B-6
C1520	C-2
C1521	C-2
C1522	C-2
C1523	B-5
C1524	B-5
C1527	C-5
C1528	C-5
C1531	C-5
C1533	C-5
C1534	C-5
C1537	C-5
C1539	D-2
C1540	D-1
C1541	C-1
C1543	D-2
C3001	A-7
C3005	D-6
C3006	D-6
C3007	E-6
C3008	E-6
C3010	E-7
C3011	E-6
C3012	E-6
C3013	E-6
C3014	E-7
C3015	E-6
C3016	E-6
C3017	E-7
C3018	E-7
C3019	E-7
C3020	E-6
C3021	E-6
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C3023	E-5
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C3026	E-5
C3027	E-5
C3028	E-6
C3029	E-6
C3030	E-6
C3031	E-6
C3032	E-5
C3033	E-5
C3034	E-7
C3035	D-6
C3036	E-6
C3037	D-6
C3038	D-6
C3039	E-6
C3040	E-6
C3041	E-6
C3042	D-6
C3043	E-6
C3044	E-6
C3046	E-7
C3047	E-7
C3901	A-7
C3902	A-7
C3909	F-6
C3910	F-6
C3911	F-6
C3912	F-6
C3917	F-3
C4003	E-4
C4004	E-4
C4005	E-4
C4006	E-4
C4009	E-4
C4010	E-4
C4011	E-3
C4013	C-7
C4014	C-7
C4016	D-3
C4017	D-4
C4019	D-4
C4022	D-4
C4023	D-4
C4024	D-4
C4025	D-4
C4026	B-6
C4027	B-6
C4028	C-6
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C4036	D-3
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C4046	D-5
C4047	D-5
C4049	D-5
C4050	E-2
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C4901	F-5
C4902	E-5
C4903	F-4
C4904	F-5
C4906	F-5
C7404	E-8
C7405	F-7
C7406	B-6
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C7416	E-8
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C7432	C-8
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C7436	B-8
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C7581	B-3
C7582	B-3
C7583	B-3
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C7585	B-4
C7586	B-3
C7587	B-3
C7588	B-4
C7589	B-4
C7595	C-4
C7596	C-4
C7597	C-4
C7598	C-4
C7599	C-4
C7600	C-4
C7601	C-4
C7602	C-3
C7604	C-3
C7607	B-3
C7609	C-4
C7611	A-8
C7612	C-3
C7613	C-3
C7618	C-2
C7620	C-3
C7626	C-2
C7633	B-1
C7636	E-2
C7637	E-1
C7639	E-1
C7650	C-3
C7652	C-4
C7654	B-3
Resistor	
R1501	B-2
R1502	B-2
R1503	B-2
R1504	D-2
R1506	B-5
R1507	C-5
R1508	C-5
R1509	C-5
R1510	D-5
R1511	D-5
R1512	D-5
R1515	C-5
R1516	D-2
R3025	D-6
R3026	D-6
R3027	E-7
R3028	A-7
R3029	E-7
R3030	E-7
R3031	E-6
R3032	E-6
R3033	E-6
R3036	E-7
R3038	D-6
R3039	D-6
R3040	D-6
R3041	D-6
R3901	F-6
R3902	F-6
R3903	F-6
R3904	F-6
R3905	F-6
R3906	F-6
R3907	F-6
R3908	F-6
R3909	F-3
R3911	F-3
R3912	F-3
R3915	F-3
R3923	F-4
R3924	F-4
R3925	F-4
R3926	A-7
R3927	A-7
R3928	A-7
R3929	A-7
R4001	F-5
R4002	F-5
R4003	F-5
R4004	F-5
R4008	E-4
R4011	F-5
R4012	F-5
R4013	F-5
R4014	F-5
R4015	C-7
R4016	C-7
R4017	C-7
R4018	C-7
R4019	D-3
R4020	D-3
R4024	D-4
R4025	D-4
R4026	D-4
R4027	D-4
R4028	D-4
R4029	D-4
R4031	D-5
R4032	D-4
R4037	A-6
R4038	A-6
R4039	E-3
R4042	E-3
R4043	C-6
R4044	C-6
R4045	C-6
R4046	C-6
R4049	D-2
R4050	E-2
R4051	E-2
R4052	D-2
R4059	E-3
R4060	E-3
R4061	E-2
R4063	E-2
R4064	E-2
R4066	E-2
R4069	F-2
R4072	F-2
R4074	D-4
R4075	D-4
R4077	D-5
R4078	E-2
R4082	E-3
R4901	F-5
R4903	F-5
R7403	F-8
R7404	F-8
R7406	D-8
R7407	D-8
R7418	C-8
R7419	C-8
R7442	B-8
R7443	B-8
R7444	B-8
R7445	B-8
R7446	B-8
R7452	D-8
R7505	B-3
R7506	B-2
R7507	B-2
R7508	B-2
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R7511	A-2
R7512	A-2
R7513	B-2
R7514	B-2
R7516	A-4
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R7523	A-7
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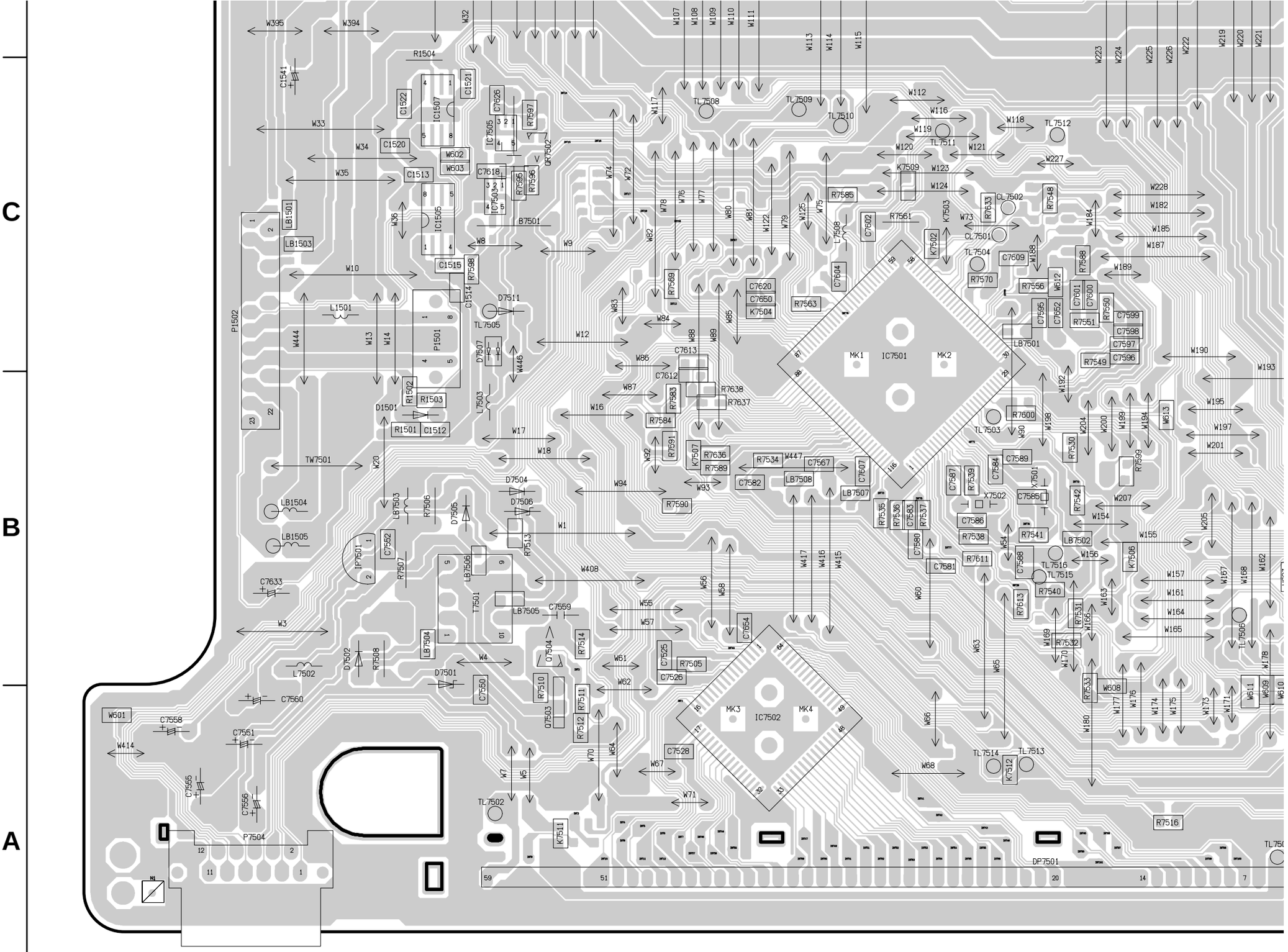
R7591	B-3
R7595	C-2
R7596	C-2
R7597	C-2
R7598	C-2
R7599	B-4
R7600	B-4
R7601	E-1
R7602	E-1
R7603	E-1
R7604	A-8
R7611	B-4
R7613	B-4
R7633	C-4
R7636	B-3
R7637	B-3
R7638	B-3
Transformer	
T7501	B-2
Backup Battery	
B7501	C-2


C
B
A
1
2
3
4
IC7501
MK1
MK2
IC7502
MK3
MK4
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DP7501
R7516
W601
W414
W3
W4
W7
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TL7504
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TL7506
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K7512
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CL7502
L7501
L7502
L7503
L7508
B7501
TW7501
LB1501
LB1503
LB1504
LB1505
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LB7502
LB7503
LB7504
LB7505
LB7506
LB7507
LB7508
D1501
D7501
D7502
D7504
D7505
D7506
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D7511
C1541
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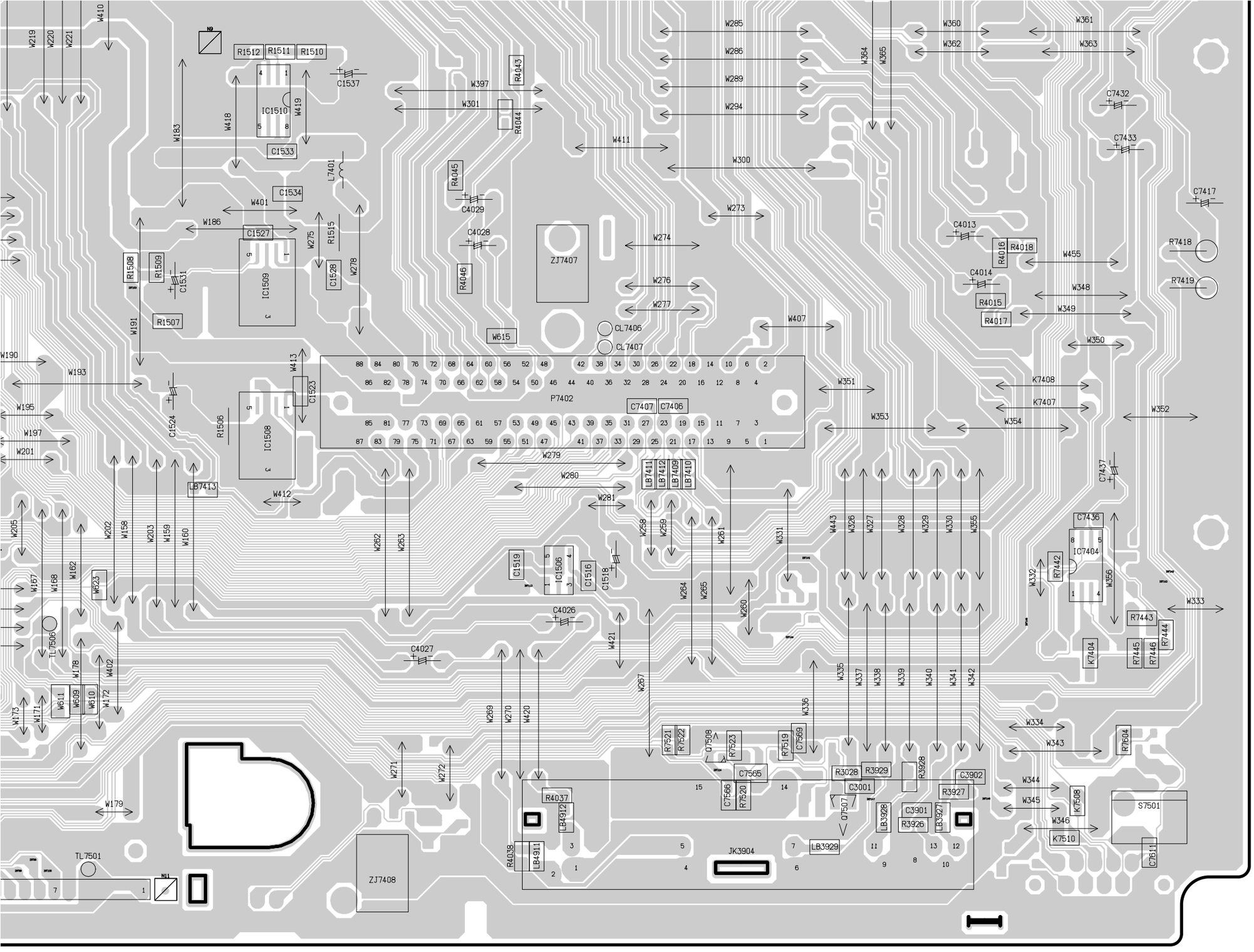
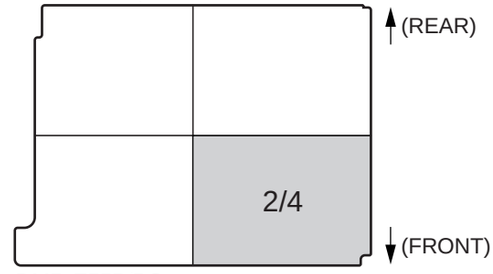
R7508
R7502
R7503
R7504
R7633
R7634
R7635
R7636
R7637
R7638
X7501
X7502
Location Map
(REAR)
(FRONT)
1/4
DMR-E55P/PC
Main P.C.B. (REP3662B)
(1/4 Section)



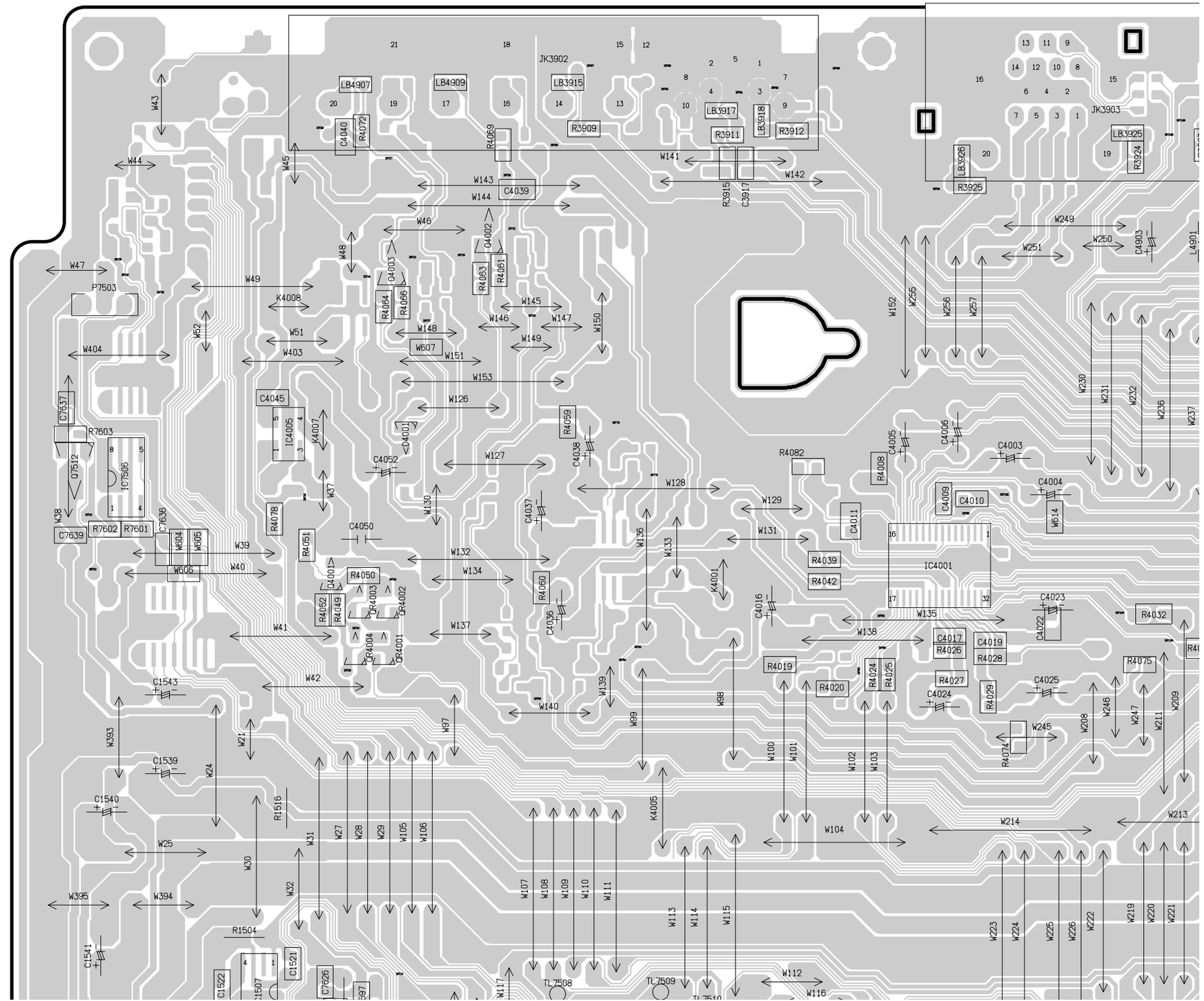
Location Map



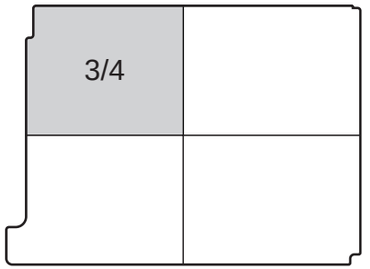
DMR-E55P/PC
Main P.C.B. (REP3662B)
(2/4 Section)

5	6	7	8

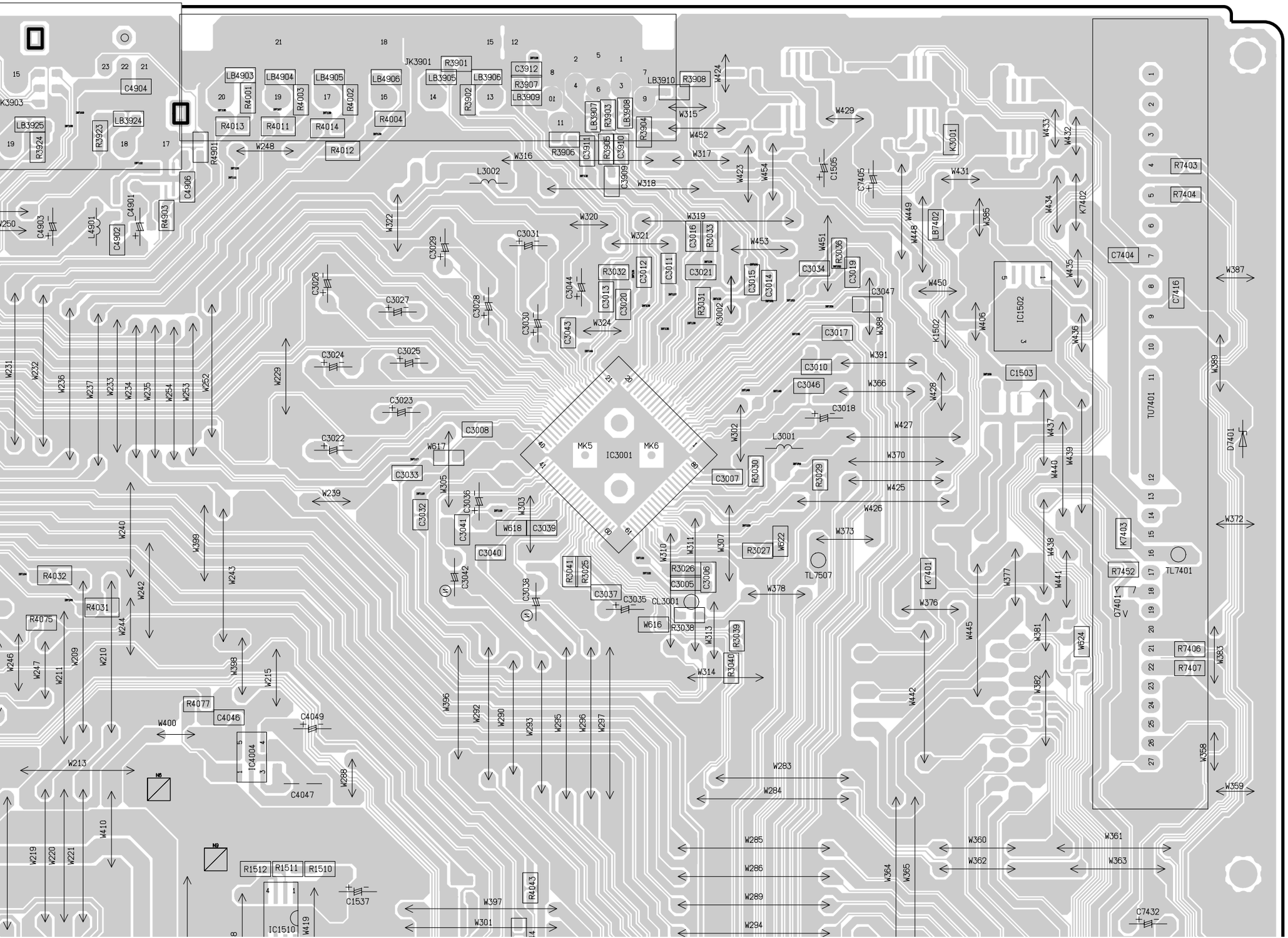
MAIN P.C.B.



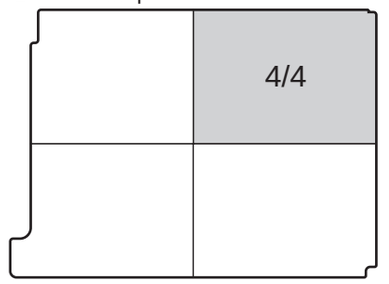
Location Map



DMR-E55P/PC
Main P.C.B. (REP3662B)
(3/4 Section)



Location Map



DMR-E55P/PC/UP
Main P.C.B. (REP3662B)
(4/4 Section)

GN:Glue Net Section(Page: F)
EN:AV Encoder/RTSC Section(Page: G)
MC:AV Decoder/Main CPU Section(Page: H)
AI:Audio I/O Section(Page: I)

IC6001
MN2DS0010-H
(AVDEC/MAIN CPU)

DMR-E55P/PC AV Decoder/Main CPU Section (Digital P.C.B.(3/4)) Schematic Diagram (MC)

GN:Glue Net Section(Page: F)
EN:AV Encoder/RTSC Section(Page: G)
MC:AV Decoder/Main CPU Section(Page: H)
AI:Audio I/O Section(Page: I)

IC6001
MN2DS0010-H
(AVDEC/MAIN CPU)

D1.2V
D3.3V
ANA3.3V

FL6021 F1H034740004
FL6020 F1H034740004
FL6017 F1H034740004
FL6016 F1H034740004
FL6015 F1H034740004
FL6014 F1H034740004
FL6013 F1H034740004
FL6011 F1H034740004
FL50005 F1H034740004
FL50006 F1H034740004

R50004 0
CLK27A1
R656DEC0
R656DEC1
R656DEC2
R656DEC3
R656DEC4
R656DEC5
R656DEC6
R656DEC7
R656ENC0
R656ENC1
R656ENC2
R656ENC3
R656ENC4
R656ENC5
R656ENC6
R656ENC7
EELRCK
EEBCK
EEDATA
IECOUT
1DADATA
1DALRCK
1DABCK
STD0
STD1
STD2
STD3
STD4
STD5
STD6
STD7
STEN
STCLK
SVALID
SBIO

RX50015 47x4
RX50016 47x4
RX6037 10Kx4
RX6036 33Kx4
RX6035 33Kx4
RX6043 10Kx4
RX6044 33Kx4

R6035 47
R6031 47
R6028 47
R6029 10K
R6038 10K
R6037 33K
R6036 3300
R50009 10K
R50005 33
R50006 47
R50007 47
R50008 22
R6021 47
R6022 47
R6019 22
R6020 0
R6018 22
R50013 0
R50014 3300
R50012 0
R50010 3300
R50011 22K

CL50001
CL50002
CL50003
CL50004
CL50008
CL50009
CL6007
CL6006
CL6005
CL6004
CL6002
CL6003
CL6001
CL50007
CL50006
CL50005
C50001 1

XGINT2
XIRQ6
XIRQ5
XGINT1
EPG ON H
XIRQ0

UTX

CLK27A1
R656ENC0
R656ENC1
R656ENC2
R656ENC3
R656ENC4
R656ENC5
R656ENC6
R656ENC7
EELRCK
EEBCK
EEDATA
IECOUT
1DADATA
1DALRCK
1DABCK
STD0
STD1
STD2
STD3
STD4
STD5
STD6
STD7
STEN
STCLK
SVALID
SBIO

ANA3.3V
COUT DM
YOUT DM
RPROUT DM
BPBOUT DM
GPYOUT DM

R50033 1K
R50032 33
R50031 150
R50030 33
R50029 1K
R50028 33
R50027 150
R50035 22
R50023 1K
R50026 1K
R50025 33
R50024 82
R50022 33
R50021 82
R50015 33K
R50016 1500
R50020 1K
R50019 33
R50017 15K
R50034 22
R50018 150

Q50005 B1ADCF000081 (BUFFER)
Q50004 B1ADCF000081 (BUFFER)
Q50003 B1ADCF000081 (BUFFER)
Q50002 B1ADCF000081 (BUFFER)
Q50001 B1ADCF000081 (BUFFER)

LB50001 J0JHC0000032
C50002 470
C50005 0.1
C50004 0.1

768FS2
CLK54A1

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E55P/PC AV Decoder/Main CPU Section (Digital P.C.B.(3/4)) Schematic Diagram (MC)

DMR-E55P/PC AV Decoder/Main CPU Section (Digital P.C.B.(3/4)) Schematic Diagram (MC)

TO P9001
DIGITAL P.C.B.
(GLUE NET)
P7402

D1.2V	88		D1.2V (P)
X SW 5.8V	87		
D1.2V	86		
X SW 5.8V	85		
D1.5V	84	LB7413 ERJ3GEY0R00V	D5V (P)
D5V	83		X SW 5.8V (P)
D1.2V	82		ANA5V (P)
X SW 5.8V	81		D1.5V (P)
D1.5V	80		
ANA5V	79		
D1.5V	78	L7401 G0A220G00018	D3.3V (P)
GND	77		ANA3.3V (P)
D3.3V	76		
ANA3.3V	75		
D3.3V	74		
	73		
IECOUT	72		IECOUT (V)
	71		
XDMUTE	70		XDMUTE (A)
UARTG2P	69		UARTG2P (T)
AU5V	68		AU5V (A)
DGND	67		
	66		
UARTP2G	65		UARTP2G (T)
AUGND	64		
DGND	63		
MIXLOUT DM	62		MIXLOUT DM (A)
DGND	61		
AUGND	60		
DGND	59		
MIXROUT DM	58		MIXROUT DM (A)
DGND	57		
AUGND	56		
	55		
AUGND	54		
	53		
AUGND	52		
	51		
AADC L	50		AADC L (A)
	49		
AADC R	48		AADC R (A)
	47		
DGND	46		
	45		
DGND	44		
	43		
PRGSEL	42	CL7406	
	41		
DGND	40		
SBMTM	39		SBPTM (T)
CSYNC IN	38	CL7407	
SBMTP	37		SBMTP (T)
DGND	36		
XMPREQ	35		XMPREQ (T)
RPROUT DM	34		RPROUT DM (V)
SCLK	33		SCLK (T)
DGND	32		
	31		
BPBOUT DM	30		BPBOUT DM (V)
XINTP	29		XINTP (T)
DGND	28		
XINTM	27		XINTM (T)
GPYOUT DM	26		GPYOUT DM (V)
SCURVE0	25		
DGND	24		
SCURVE1	23		
YOUT DM	22		YOUT DM (V)
I2C5CK	21		IIC CLK (V) (A)
DGND	20	LB7409 J0JHC0000032	
I2C5DT	19	LB7410 J0JHC0000032	IIC DATA (V) (A)
COUT DM	18		COUT DM (V)
POWER ON (H)	17		POWER ON (H) (T)
DGND	16		
BSON	15		
DGND	14		
R/CR IN	13		
DGND	12		
DGND	11		
	10		
B/CB IN	9		
DGND	8		
DGND	7		
RGB CPSVIN	6		AUGND (A)
G/CY IN	5		
DGND	4		
DGND	3		
V YIN DM	2		V YIN DM (V)
CPNCIN DM	1		CPNCIN DM (V)

TU7401
ENGD6201D

AGC 1 | TU 2 | - 3 | SCL 4 | SDA 5 | - 6 | REG 5V 7 | - 8 | BTL 9 | - 10 | IF OUT 11 | IF IN 12 | REG 5V 13 | - 14 | GND 15 | AFT 16 | AGC OUT 17 | VIDEO OUT 18 | - 19 | GND 20 | SCL 21 | SDA 22 | - 23 | - 24 | - 25 | R OUT 26 | L OUT 27

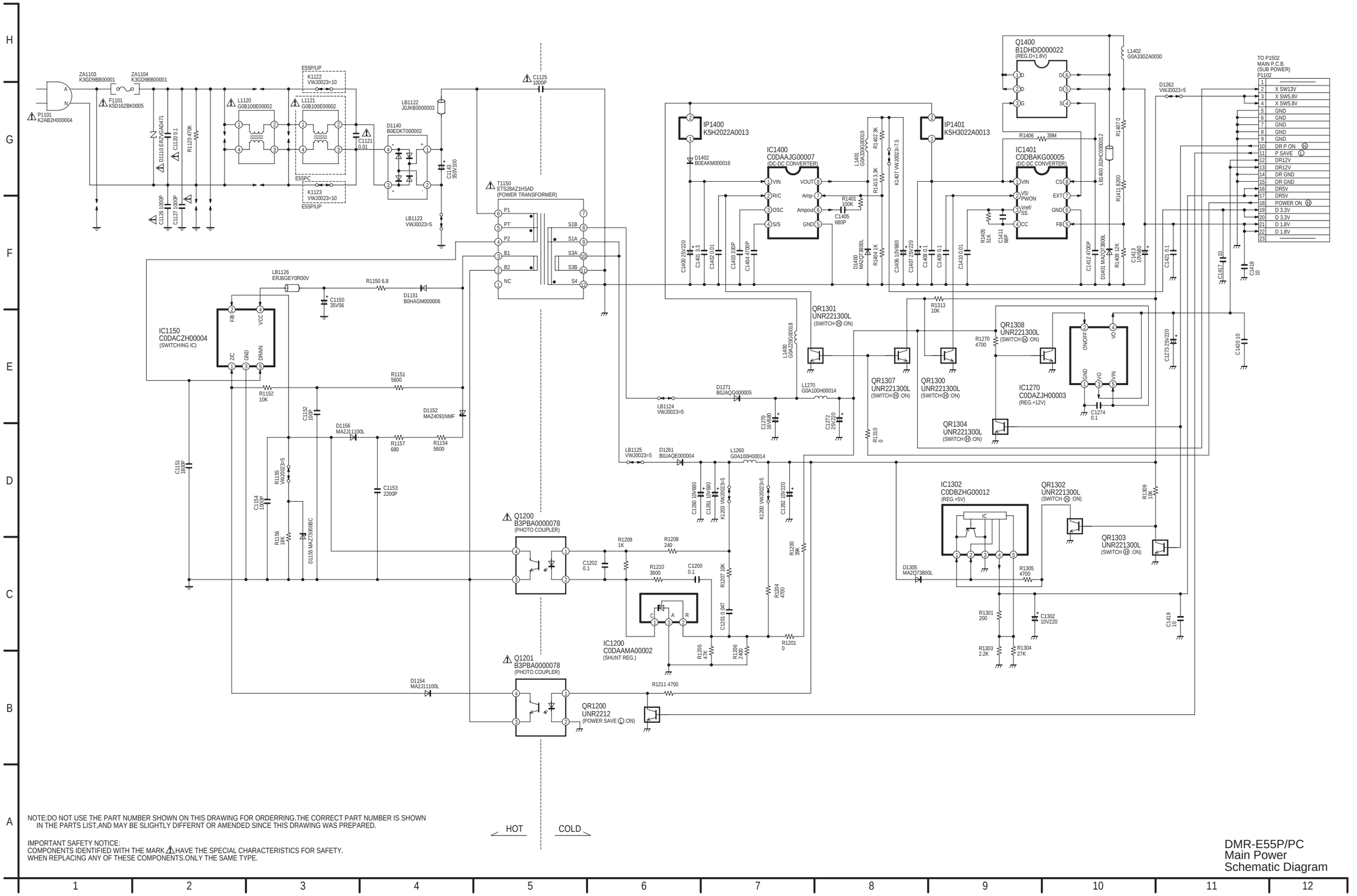
R7403 100
R7404 100
TL7401
K7403 0
R7406 100
R7407 100
C7432 16V10
C7433 16V10
TUNER L (A)
TUNER R (A)
K7402 VWJ0023=7.5
C7404 0.01
C7405 6V47
D7401 MAZ4300NM
C7416 0.01
C7417 50V1
R7418 470
R7419 470
LB7402 J0JHC0000032
Q7401 2SB1218A (AMP)
K7401 0
TU VIDEO IN (V)
R7452 680
UNREG38V (T)
JC REG5V (P)
C7436 0.1
C7437 6V47
R7442 2200
IC7404 C0BBBB000006 (JC CLK OUT)
VCC 8 | OUT 7 | - 6 | + 5
OUT 1 | - 2 | + 3 | VSS 4
R7443 1K
R7444 15K
R7446 13K
R7445 2200
K7404 0
K7408 VWJ0023=12.5
K7407 VWJ0023=12.5
LB7412 ERJ3GEY0R00V
LB7411 ERJ3GEY0R00V
C7406 0.1
C7407 0.1

TO FRAME GND
ZJ7407 K9ZZ00000424
ZJ7408 K9ZZ00000424

P:Sub Power Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E55P/PC
Main Net Section (Main P.C.B.(2/5))
Schematic Diagram (M)



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

HOT COLD

DMR-E55P/PC
Main Power
Schematic Diagram

POWER P.C.B.

MAIN P.C.B.

AC SOCKET
P1101

F1101
(250V1.6A)

D1110,L1120
SURGE SUPPRESSOR AND SURGE ABSORBER

D1140
C1143
RECTIFIER

T1150
POWER TRANSFORMER
P1
PT
P2
B1
B2
S1B
S1A
S3A
S3B
S4

IC1150
(SW IC)
Z/C
DRAIN
VCC
F/B

IP1401

IC1401
(DC-DC CONVERTER)
VIN
EXT
V5 /PWON
FB
CS

QR1300

Q1400
(SWITCHING)
G
S
D

D+1.8V
P1102 P1502
21,22

IP1400

IC1400
(DC-DC CONVERTER)
VIN
VOUT
R/C ON/OFF

QR1301

D+3.3V
P1102 P1502
19,20

POWER ON Ⓗ
P1102 P1502
18

QR1307

X SW+5.8V
P1102 P1502
3,4

IC1270
(REG.DR+12V)
VIN
Vo
ON/OFF

DR+12V
P1102 P1502
12,13
P1501 P102
1,8
(TO DVD RAM DRIVE)

X SW+13V
P1102 P1502
2

IC1302
(REG.+5V)
VIN
VOUT
ON Ⓗ

DR+5V
P1102 P1502
16,17
P1501 P102
4,5
(TO DVD RAM DRIVE)

QR1302
QR1303
QR1304, QR1308

Q1200
PHOTO COUPLER

IC1200
(SHUNT REG.)

Q1201
PHOTO COUPLER

D1154

QR1200

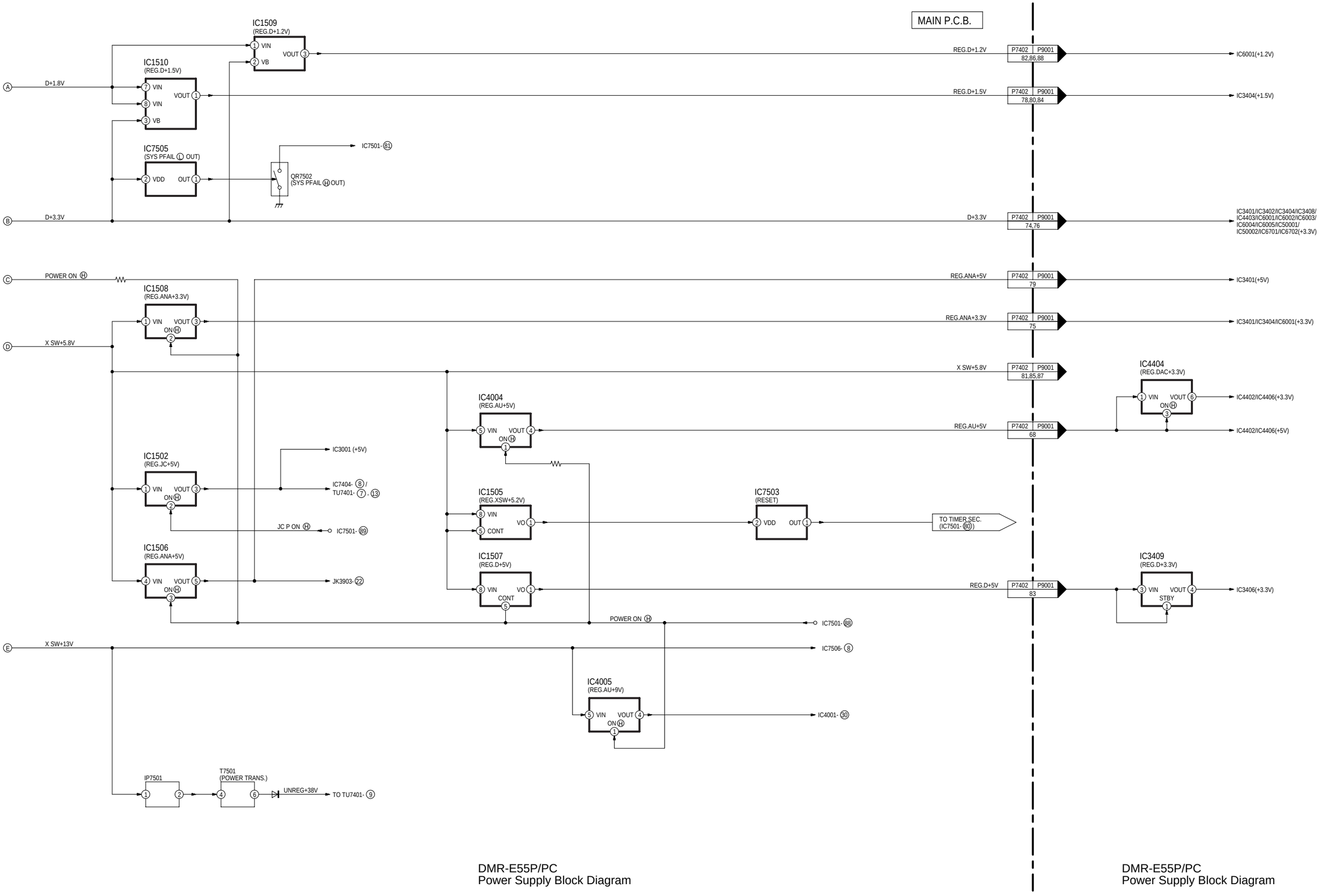
DR P ON Ⓗ
P1102 P1502
10
IC7501-Ⓝ86

P SAVE Ⓛ
P1102 P1502
11
IC7501-Ⓝ56

HOT

COLD

DMR-E55P/PC
Power Supply
Block Diagram



DMR-E55P/PC
Power Supply Block Diagram

DMR-E55P/PC
Power Supply Block Diagram

Ref No.	IC1150						IC1200				IC1270									
MODE	1	2	3	4	5		1	2	3		1	2	3	4	5					
REC	2.4	1.9	0	13.6	-359		4.9	2.4	0		0	1.8	12.0	12.0	13.5					
PLAY	2.4	1.9	0	13.6	-450		4.9	2.4	0		0	1.8	12.0	12.0	13.5					
STOP	2.4	1.9	0	13.6	-400		4.9	2.4	0		0	1.8	12.0	12.0	13.4					

Ref No.	IC1302					IC1400														
MODE	1	2	3	4	5	1	2	3	4	5	6	7	8							
REC	5.7	5.8	0	5.1	5.0	12.7	0	1.3	4.1	-0.1	1.0	0.7	3.3							
PLAY	5.7	5.8	0	5.1	5.0	12.8	0	1.3	4.1	-0.1	1.0	0.7	3.2							
STOP	5.7	5.9	0	5.1	5.0	12.7	0	1.3	4.1	-0.1	1.0	0.7	3.2							

Ref No.	IC1401																			
MODE	1	2	3	4	5	6	7	8												
REC	13.5	4.5	1.2	1.3	1.2	-0.1	12.0	13.5												
PLAY	13.5	4.5	1.2	1.2	1.2	-0.1	12.0	13.5												
STOP	13.4	4.5	1.2	1.2	1.2	-0.1	12.0	13.4												

Ref No.	Q1200				Q1201				Q1400											
MODE	1	2	3	4	1	2	3	4	1	2	3	4	5	6						
REC	5.9	4.9	0	1.8	0	0	0	7.3	0.8	0.8	12.0	13.5	0.8	0.8						
PLAY	5.9	4.9	0	1.8	0	0	0	7.3	0.8	0.8	12.0	13.4	0.8	0.8						
STOP	5.9	4.9	0	1.8	0	0	0	7.3	0.8	0.8	12.0	13.4	0.8	0.8						

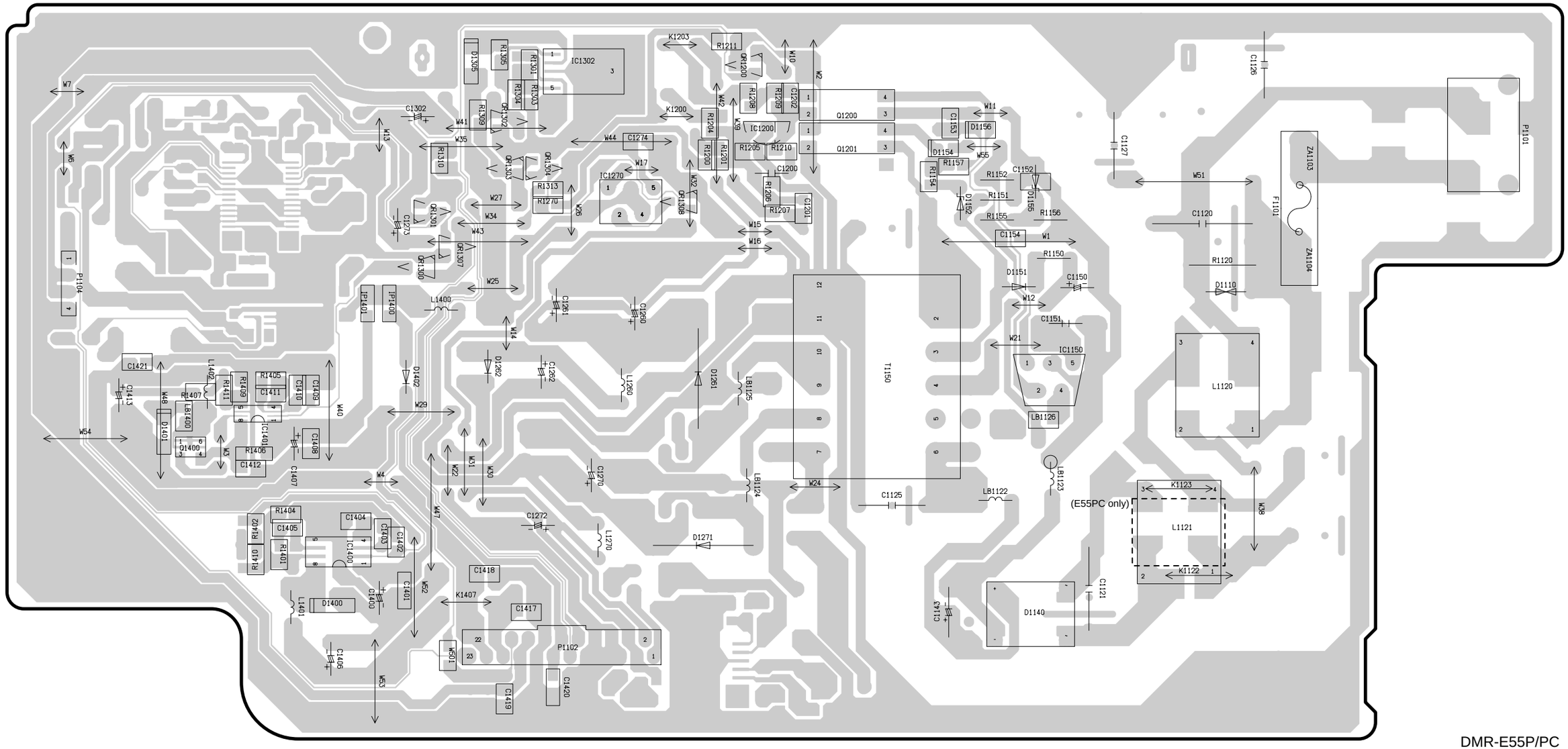
Ref No.	QR1200				QR1300				QR1301				QR1302				QR1303			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	0	4.3		0	4.5	0		0	0	3.3		0	5.7	0		0	0	5.0	
PLAY	0	0	4.3		0	4.5	0		0	0	3.3		0	5.7	0		0	0	5.0	
STOP	0	0	4.3		0	4.5	0		0	0	3.3		0	5.7	0		0	0	5.0	

Ref No.	QR1304				QR1307				QR1308											
MODE	E	C	B		E	C	B		E	C	B									
REC	0	0	5.0		0	0	3.3		0	1.8	0									
PLAY	0	0	5.0		0	0	3.3		0	1.8	0									
STOP	0	0	5.0		0	0	3.3		0	1.8	0									

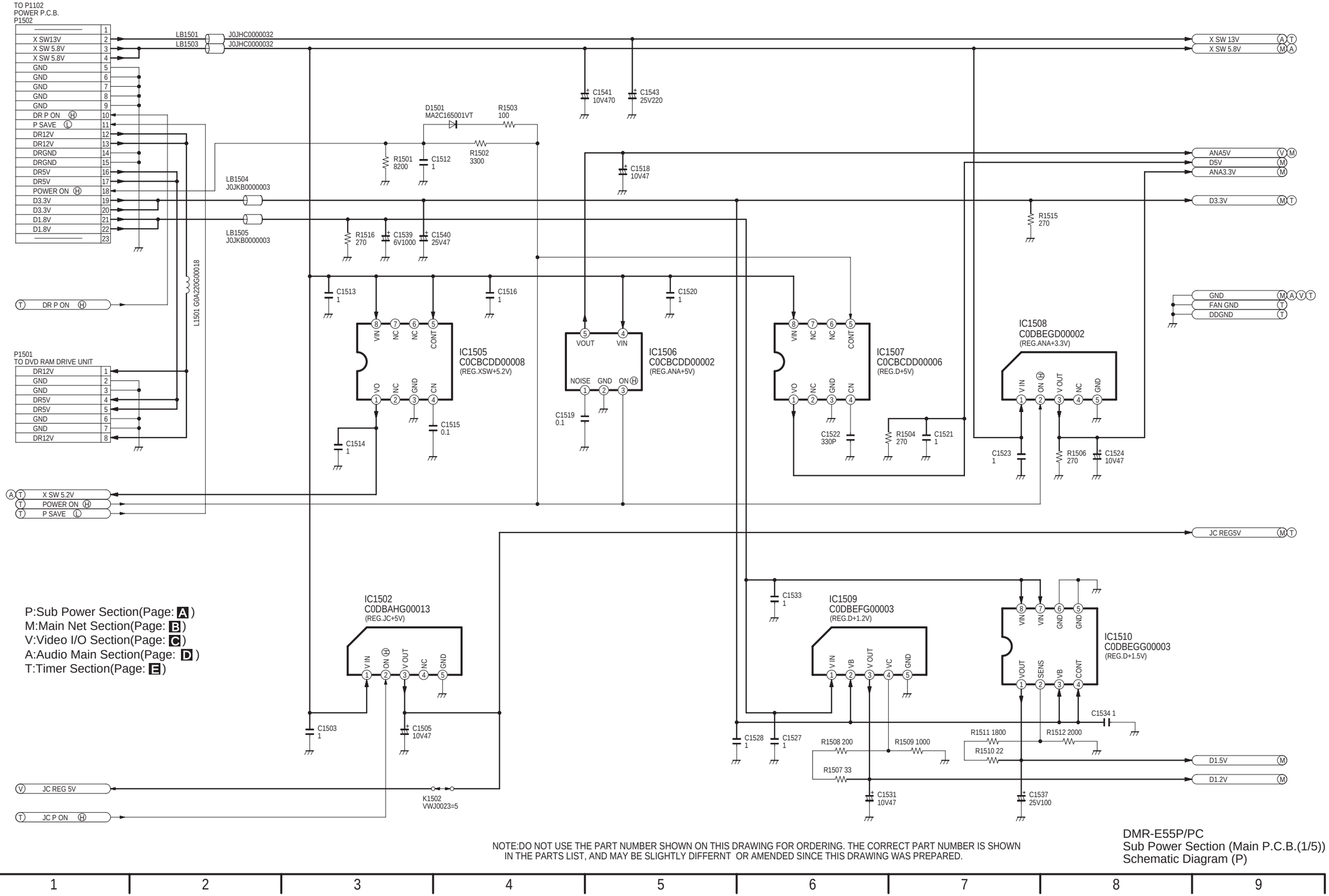
POWER P.C.B.

POWER P.C.B.

Integrated Circuit		QR1308	D-4	IC Protector		LB1126	C-6	C1262	C-4	C1413	C-1	R1206	D-5	R1407	C-2
IC1150	C-6	**Connector**		IP1400	C-3	LB1400	C-2	C1270	B-4	C1417	B-4	R1207	D-5	R1409	C-2
IC1200	D-5	P1101	D-9	IP1401	C-3	**Capacitor**		C1272	B-4	C1418	B-3	R1208	D-5	R1410	B-2
IC1270	D-4	P1102	A-4	**Transformer**		C1120	D-7	C1273	D-3	C1419	A-3	R1209	D-5	R1411	C-2
IC1302	D-4	**Diode**		T1150	C-5	C1121	B-7	C1274	D-4	C1420	A-4	R1210	D-5		
IC1400	B-3	D1110	C-7	**Fuse**		C1125	B-6	C1302	D-3	C1421	C-2	R1211	E-5		
IC1401	C-2	D1140	A-6	F1101	D-8	C1126	D-8	C1400	B-3	**Resistor**		R1270	D-4		
Transistor		D1151	C-6	**Coil**		C1127	D-7	C1401	B-3	R1120	C-7	R1301	D-4		
Q1200	D-5	D1152	D-6	L1120	C-7	C1143	A-6	C1402	B-3	R1150	C-6	R1303	D-4		
Q1201	D-5	D1154	D-6	L1121	B-7	C1150	C-7	C1403	B-3	R1151	D-6	R1304	D-4		
Q1400	B-2	D1155	D-6	L1260	C-4	C1151	C-6	C1404	B-3	R1152	D-6	R1305	D-3		
Transistor-resistor		D1156	D-6	L1270	B-4	C1152	D-6	C1405	B-2	R1154	D-6	R1309	D-3		
QR1200	D-5	D1261	C-5	L1400	C-3	C1153	D-6	C1406	A-3	R1155	D-6	R1310	D-3		
QR1300	C-3	D1262	C-3	L1401	B-2	C1154	D-6	C1407	B-2	R1156	D-6	R1313	D-4		
QR1301	D-3	D1271	B-5	L1402	C-2	C1200	D-5	C1408	B-2	R1157	D-6	R1401	B-2		
QR1302	D-4	D1305	D-3	LB1122	B-6	C1201	D-5	C1409	C-2	R1200	D-5	R1402	B-2		
QR1303	D-4	D1400	B-3	LB1123	B-6	C1202	D-5	C1410	C-2	R1201	D-5	R1404	B-2		
QR1304	D-4	D1401	B-2	LB1124	B-5	C1260	C-4	C1411	C-2	R1204	D-5	R1405	C-2		
QR1307	C-3	D1402	C-3	LB1125	C-5	C1261	C-4	C1412	B-2	R1205	D-5	R1406	B-2		



DMR-E55P/PC
POWER P.C.B.
(E55P:VEP01950A)
(E55PC:VEP01950C)



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E55P/PC
Sub Power Section (Main P.C.B.(1/5))
Schematic Diagram (P)

P:Sub Power Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

IC7501
C2CBJG000381
(TIMER)

P:Sub Power Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

DP7501
A2BD00000074
(DISPLAY)

TL7501

TL7502

K7511
0

IC7502
C0HBB0000033
(DISPLAY DRIVE)

IC7503
C0EBJ0000110
(RESET)

IC7505
C0EBE0000194
(SYS PFAIL OUT)

QR7502
UNR521200L
(INV.)

IC7506
C0ABBA000146
(FAN MOTOR DRIVE)

Q7503
2SD1994B
(POWER SAVE H :ON)

Q7504
2SD0601A
(POWER SAVE H :ON)

Q7512
2SD0874A0L
(FAN MOTOR SWITCH)

IP7501
B1ZAZ0000035

T7501
ETS13TB119AP
(TRANSFORMER)

D7501 MAZ4240NMF
D7502 B0HAGM000001
D7504 MAZC18500E
D7505 MA2C18500E
D7506 MAZ4300NLF
D7507 B0JDCE000002
D7511 B0JACE000001

L7502 ELESE101KA
L7503 VWJ0023=5

LB7503 J0JKB0000037
LB7504 ERJ3GEY0R00V
LB7505 ERJ3GEY0R00V
LB7506 ERJ3GEY0R00V

TW7501 VWJ0023=12.5
TL7505
B7501 CR2354-1GUF BACK-UP BATTERY

R7505 27K
R7506 VWJ0023=5
R7507 330
R7508 5.6
R7510 3300
R7511 10K
R7512 47K
R7513 47K
R7514 100
R7595 47K
R7596 47K
R7597 15K
R7598 1K
R7600 10K
R7601 10K
R7602 820
R7603 18K

C7526 0.1
C7528 0.1
C7550 0.01
C7551 50V1
C7552 0.1
C7555 25V220
C7556 16V220
C7558 35V47
C7559 0.022
C7560 50V1
C7618 0.01
C7626 0.01
C7633 6V470
C7636 1
C7637 0.01
C7639 0.1
C7654 0.01
C7525 100P

<XSW 5.2V>
<NSW 5V>
(B17)
(B18)
(B19)
(B20)
(B21)

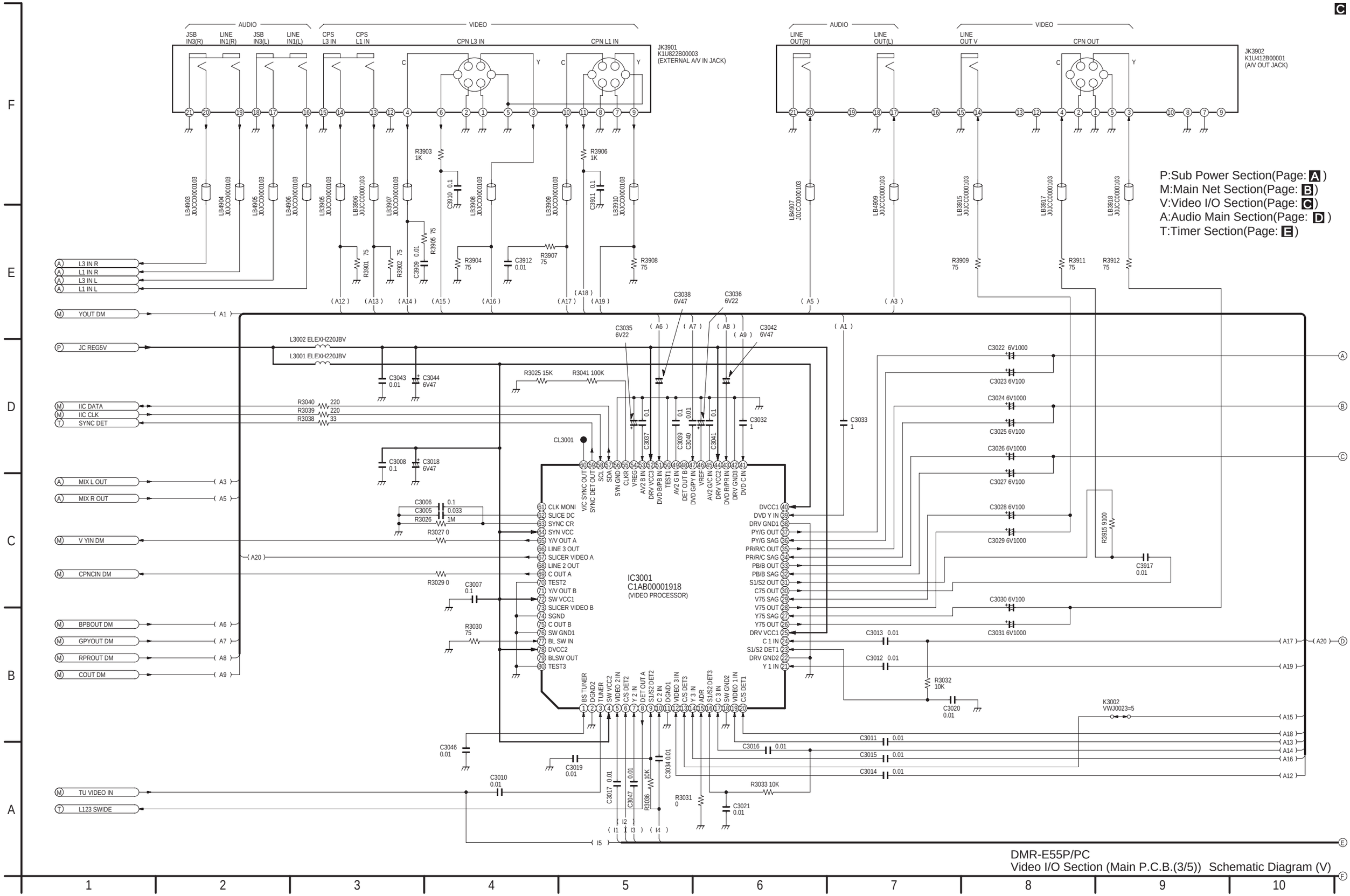
X SW 13V (P)
GND (P)
FAN GND (P)
D3.3V (P)
X SW 5.2V (P)
UNREG38V (M)
DDGND (P)

TO FAN MOTOR
P7503
1 FANDCOUT
2 GND
3 FANLOCK

DMR-E55P/PC
Timer Section (Main P.C.B.(5/5))
Schematic Diagram (T)

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E55P/PC
Timer Section (Main P.C.B.(5/5))
Schematic Diagram (T)


C
AUDIO
VIDEO
JSB IN3(R)
LINE IN1(R)
JSB IN3(L)
LINE IN1(L)
CPS L3 IN
CPS L1 IN
CPN L3 IN
CPN L1 IN
JK3901
K1U822B00003
(EXTERNAL A/V IN JACK)
LINE OUT(R)
LINE OUT(L)
LINE OUT V
CPN OUT
JK3902
K1U412B00001
(A/V OUT JACK)
P:Sub Power Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)
L3 IN R
L1 IN R
L3 IN L
L1 IN L
YOUT DM
JC REG5V
IIC DATA
IIC CLK
SYNC DET
MIX L OUT
MIX R OUT
V YIN DM
CPNCIN DM
BPBOUT DM
GPYOUT DM
RPROUT DM
COUT DM
TU VIDEO IN
L123 SWIDE
IC3001
C1AB00001918
(VIDEO PROCESSOR)
CL3001
K3002
VWJ00023=5
DMR-E55P/PC
Video I/O Section (Main P.C.B.(3/5)) Schematic Diagram (V)

P:Sub Power Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

C

JK3903
K1U407B00003

COMPONENT VIDEO OUT (480P/480I)

PR/CR (RED)

PB/CB (BLUE)

Y (GREEN)

DIGITAL AUDIO OUT

GND VCC IN

LB3924 J0JCC0000103

LB3925 J0JCC0000103

LB3926 J0JCC0000103

R3923 75

R3924 75

R3925 75

C4904 0.1

C4903 6V47

R4901 0

R4903 0

IECOUT (M)

C4906 22P

L4901 ELESE220KA

C4902 0.1

C4901 10V100

ANA5V (P)

GND (P)

AUGND (A)

L2 IN L (A)

L2 IN R (A)

JK3904
K1U415B00001
(FRONT A/V JACK)

LB4912 J0JCC0000103

LB4911 J0JCC0000103

LB3929 J0JCC0000103

LB3928 J0JCC0000103

LB3927 J0JCC0000103

LINE IN 2(R)

LINE IN 2(L)

CPS L2 IN

CPN L2 IN

I1

I3

I4

I2

R3929 75

R3928 75

R3927 75

R3926 1K

C3902 0.01

C3901 0.1

K3001 0

R3028 470

C3001 560P

SYNC IN (T)

A

B

C

D

E

F

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E55P/PC
Video I/O Section (Main P.C.B.(3/5))
Schematic Diagram (V)

DMR-E55P/PC
Video I/O Section (Main P.C.B.(3/5))
Schematic Diagram (V)

11 12 13 14 15 16 17 18 19 20

Ref No.	IC1502						IC1505									IC1506				
MODE	1	2	3	4	5		1	2	3	4	5	6	7	8		1	2	3	4	5
REC	6.0	4.9	5.0	-	0		5.2	-	0	3.6	6.0	-	-	6.0		1.2	0	4.9	6.0	5.0
PLAY	6.0	4.9	5.0	-	0		5.2	-	0	3.6	6.0	-	-	6.0		1.2	0	4.9	6.0	5.0
STOP	6.0	4.9	5.0	-	0		5.2	-	0	3.6	6.0	-	-	6.0		1.2	0	4.9	6.0	5.0

Ref No.	IC1507								IC1508					IC1509					
MODE	1	2	3	4	5	6	7	8	1	2	3	4	5	1	2	3	4	5	
REC	5.0	-	0	3.4	4.9	-	-	6.0	6.0	4.9	3.3	-	0	1.8	3.3	1.2	1.0	0	
PLAY	5.0	-	0	3.4	4.9	-	-	6.0	6.0	4.9	3.3	-	0	1.8	3.3	1.2	1.0	0	
STOP	5.0	-	0	3.4	4.9	-	-	6.0	6.0	4.9	3.3	-	0	1.8	3.3	1.2	1.0	0	

Ref No.	IC1510							
MODE	1	2	3	4	5	6	7	8
REC	1.5	0.8	3.3	3.3	0	0	1.8	1.8
PLAY	1.5	0.8	3.3	3.3	0	0	1.8	1.8
STOP	1.5	0.8	3.3	3.3	0	0	1.8	1.8

Ref No.	IC3001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.3	0	1.7	4.9	1.3	4.8	1.4	4.6	0.1	2.6	0	1.3	4.8	1.3	0	0.1	2.6	0	1.7	4.8
PLAY	1.4	0	1.8	4.9	1.4	4.8	1.4	4.6	0.1	2.6	0	1.4	4.8	1.4	0	0.1	2.6	0	1.8	4.8
STOP	1.3	0	1.8	4.9	1.3	4.8	1.3	4.6	0.1	2.6	0	1.3	4.8	1.3	0	0.1	2.6	0	1.8	4.8

Ref No.	IC3001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	1.3	0	0.1	2.6	4.9	1.6	1.6	1.8	1.8	2.1	0	2.1	2.1	2.1	2.1	1.6	1.5	0	1.8	4.9
PLAY	1.4	0	0.1	2.6	4.9	1.6	1.6	1.8	1.8	2.1	0	2.1	2.1	2.1	2.1	1.6	1.5	0	1.8	4.9
STOP	1.3	0	0.1	2.6	4.9	1.6	1.6	1.8	1.8	2.1	0	2.1	2.1	2.1	2.1	1.6	1.5	0	1.8	4.9

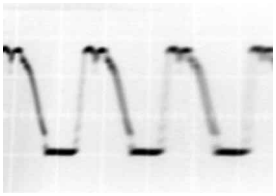
Ref No.	IC3001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	2.7	0	2.7	4.9	2.7	2.7	1.7	4.6	2.7	0	2.7	4.9	2.7	2.9	1.0	0	4.9	4.9	4.9	0.1
PLAY	2.7	0	2.7	4.9	2.7	2.7	1.8	4.6	2.7	0	2.7	4.9	2.7	2.9	1.0	0	4.9	4.9	4.9	0.1
STOP	2.7	0	2.7	4.9	2.7	2.7	1.7	4.6	2.7	0	2.7	4.9	2.7	3.0	1.0	0	4.9	4.9	4.9	0.1

Ref No.	IC3001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0	0.8	0.8	4.9	1.2	0	1.6	0	2.0	0	0.8	4.9	0.8	0	2.0	0	0	4.9	0	0
PLAY	0	1.6	0.8	4.9	1.6	0	1.6	0	2.0	0	0.8	4.9	0.8	0	2.0	0	0	4.9	0	0
STOP	0	0.8	0.8	4.9	1.2	0	1.6	0	2.0	0	0.8	4.9	0.8	0	2.0	0	0	4.9	0	0

Ref No.	IC4001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.5	4.4	4.4	1.5	1.5	4.4	4.4	3.4	4.4	4.4	4.4	4.4	4.4	4.4	0	4.4	0	4.4	0	4.9
PLAY	1.9	4.4	4.4	1.5	1.6	4.4	4.4	3.4	4.4	4.4	4.4	4.4	4.4	4.4	0	4.4	0	4.4	0	4.9
STOP	0.1	4.4	4.4	0.1	0.1	4.5	4.5	3.4	4.4	4.4	4.4	4.4	4.4	4.4	0	4.5	0	4.4	0	4.9

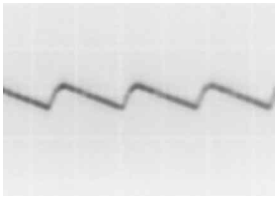
Ref No.	IC4001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	4.9	0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	8.9	4.4	4.4								
PLAY	4.9	0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	8.9	4.4	4.4								
STOP	4.9	0	4.5	4.4	4.4	4.4	4.4	4.4	4.5	8.9	4.4	4.4								
Ref No.	IC4004						IC4005						IC7404							
MODE	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5	6	7	8
REC	4.9	0	1.2	4.9	6.0		4.9	0	1.2	8.9	13.4		0	2.5	1.9	0	2.8	2.5	3.3	5.0
PLAY	4.9	0	1.2	4.9	6.0		4.9	0	1.2	8.9	13.4		0	2.5	1.9	0	2.8	2.5	3.3	5.0
STOP	4.9	0	1.2	4.9	6.0		4.9	0	1.2	8.9	13.4		0	2.5	1.9	0	2.8	2.5	3.3	5.0
Ref No.	IC7501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.9	4.9	0	1.6	1.6	4.4	0	0	1.5	0.5	4.8	1.2	0	2.1	4.9	4.9	5.0	0	0.3	4.9
PLAY	4.9	4.9	0	1.5	1.4	4.4	0	0	1.1	0.5	4.8	1.2	0	2.1	4.9	4.9	5.0	0	0.3	4.9
STOP	5.0	4.9	0	0.7	0.7	4.4	0	0	0.6	0.6	4.8	1.6	0	2.1	5.0	5.0	5.0	0	0.3	4.9
Ref No.	IC7501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	0	0	1.8	0	4.9	0	0	0	0	0	1.8	1.7	0	4.9	2.5	0	0.3	4.9	5.0	5.0
PLAY	0	0	1.8	0	4.9	0	0	0	0	0	1.8	1.7	0	4.9	2.5	0	0.3	4.9	5.0	5.0
STOP	0	0	1.8	0	4.9	0	0	0	0	0	1.8	1.7	0	5.0	2.5	0	0.3	5.0	5.0	5.0
Ref No.	IC7501																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	5.0	0	0	0	0	0	0	0	0	0	0	0	5.0	0	0	4.9	0	0	4.9	4.9
PLAY	5.0	0	0	0	0	0	0	0	0	0	0	0	5.0	0	0	4.9	0	0	4.9	4.9
STOP	5.0	0	0	0	0	0	0	0	0	0	0	0	5.0	0	0	4.9	0	0	4.9	5.0
Ref No.	IC7501																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0	0	0	2.5	5.0	0	0	0	4.9	5.0	0	0	0	0	5.0	5.0	0	0	4.9	4.9
PLAY	0	0	0	2.5	4.9	0	0	0	5.0	4.9	0	0	0	0	5.0	5.0	0	0	4.9	4.9
STOP	0	0	0	2.5	5.0	0	0	0	5.0	4.9	0	0	0	0	5.0	5.0	0	0	5.0	5.0
Ref No.	IC7501																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	0	5.0	0	4.9	0	4.9	3.0	4.9	4.9	0	0	0	0	4.9	5.0	5.0	5.0	4.9	4.6	0
PLAY	0	5.0	0	4.9	0	4.9	3.0	4.9	4.9	0	0	0	0	4.9	5.0	5.0	5.0	4.9	4.6	0
STOP	0	5.0	0	5.0	0	4.9	3.0	4.9	4.9	0	0	0	0	5.0	5.0	5.0	5.0	5.0	4.6	0
Ref No.	IC7501																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116				
REC	0	0	0	5.0	5.0	4.9	5.0	0	1.7	1.7	0	4.9	1.7	0	0	4.9				
PLAY	0	0	0	5.0	5.0	4.9	5.0	0	1.7	1.3	0	4.9	1.7	0	0	4.9				
STOP	0	0	0	5.0	5.0	5.0	5.0	0	1.8	1.3	0	5.0	1.8	0	0	5.0				
Ref No.	IC7502																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.9	3.0	4.4	1.5	0	2.2	2.2	5.0	-28.5	-28.5	-28.5	-28.5	-28.5	-24.8	-24.8	-21.0	-28.6	5.0	-28.5	-28.6
PLAY	4.9	3.0	4.4	0.8	0	2.2	2.2	5.0	-28.4	-28.5	-28.5	-28.4	-28.5	-24.8	-21.1	-21.1	-28.4	5.0	-24.8	-24.8
STOP	5.0	3.0	4.4	1.1	0	2.2	2.2	5.0	-28.5	-28.5	-28.5	-28.5	-28.5	-28.5	-28.5	-17.5	-28.5	5.0	-24.8	-28.5
Ref No.	IC7502																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	-28.6	-28.6	-28.6	-28.6	-24.8	-28.6	-28.6	-28.6	-28.6	-28.6	-28.6	-28.6	-21.0	-17.3	-21.1	-24.8	-24.8	-24.8	-28.6	-17.3
PLAY	-24.8	-28.5	-28.5	-17.4	-17.4	-28.5	-28.5	-28.5	-28.5	-28.5	-28.5	-28.5	-21.1	-13.7	-24.8	-24.8	-24.8	-21.1	-17.4	-13.7
STOP	-28.5	-28.5	-28.5	-28.5	-21.1	-28.5	-28.5	-28.5	-28.5	-28.5	-28.5	-28.5	-21.1	-21.1	-24.8	-17.5	-28.5	-17.5	-28.5	-13.7
Ref No.	IC7502																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	-13.6	-21.1	-28.6	-28.6	-28.6	-28.6	-21.1	-24.8	-24.8	-17.4	-21.1	-28.6	-28.6	-28.6	-28.6	-24.9	-24.9	-24.9	-24.9	-24.9
PLAY	-17.4	-13.7	-28.5	-28.5	-24.8	-28.5	-21.1	-24.8	-10.1	-10.2	-21.1	-28.5	-28.5	-28.5	-28.5	-24.8	-24.8	-24.8	-24.8	-24.8
STOP	-21.1	-21.1	-28.5	-28.5	-28.5	-28.5	-21.1	-24.8	-24.9	-13.8	-21.1	-28.5	-28.5	-28.5	-28.5	-24.9	-24.9	-24.9	-24.9	-24.9
Ref No.	IC7502																			
MODE	61	62	63	64																
REC	-24.9	-24.9	-24.9	-28.8																
PLAY	-24.8	-24.8	-24.8	-28.7																
STOP	-24.9	-24.9	-24.9	-28.7																
Ref No.	IC7503						IC7505						IC7506							
MODE	1	2	3	4	5		1	2	3	4	5		1	2	3	4	5	6	7	8
REC	4.9	5.2	0	-	-		2.2	3.3	0	-	-		5.8	1.8	1.8	0	1.8	1.8	1.8	13.3
PLAY	4.9	5.2	0	-	-		2.2	3.3	0	-	-		5.8	1.8	1.8	0	1.8	1.8	1.8	13.4
STOP	5.0	5.2	0	-	-		2.2	3.3	0	-	-		5.8	1.8	1.8	0	1.8	1.8	1.8	13.4
Ref No.	Q4001				Q4002				Q4003				Q7401				Q7503			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	5.2	-1.5	5.2		0	0	-1.4		0	0	-1.9		2.7	0	2.0		0	4.5	-1.0	
PLAY	5.2	-4.1	5.2		0	0	0		0	0	-0.3		2.7	0	2.1		0	4.5	-0.9	
STOP	5.2	-2.2	5.2		0	0	-0.3		0	0	0		2.7	0	2.1		0	4.3	-1.0	
Ref No.	Q7504				Q7507				Q7508				Q7512							
MODE	E	C	B		1	2	3		E	C	B		1	2	3					
REC	0	-1.0	-1.0		2.3	0	1.6		1.7	5.0	1.6		5.0	13.4	5.7					
PLAY	0	-0.9	-1.0		2.3	0	1.6		1.8	5.0	1.6		5.0	13.4	5.7					
STOP	0	-1.0	-1.0		2.3	0	1.6		1.8	5.0	1.6		5.0	13.4	5.7					
Ref No.	QR4001				QR4002				QR4003				QR4004				QR7501			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
REC	0	0	4.9		0	0	2.3		0	5.2	0		0	5.2	0		5.0	0	5.0	
PLAY	0	0	4.9		0	0	2.4		0	5.2	0		0	5.2	0		5.0	0	5.0	
STOP	0	0	4.9		0	0	2.4		0	5.2	0		0	5.2	0		5.0	0	5.0	
Ref No.	QR7502																			
MODE	E	C	B																	
REC	0	0	2.2																	
PLAY	0	0	2.2																	
STOP	0	0	2.2																	

Ref No.	P9001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.0	1.2	0	0	0	0	0	0	0	-	0	0	0	0	3.3	0	4.9	1.5	4.9	0
PLAY	2.0	1.2	0	0	0	0	0	0	0	-	0	0	0	0	3.3	0	4.9	1.1	4.9	0
STOP	2.0	1.2	0	0	0	0	0	0	0	-	0	0	0	0	3.3	0	4.9	1.5	4.9	0
Ref No.	P9001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	4.9	1.1	3.3	0	0	1.0	5.0	0	4.9	1.0	5.0	0	4.9	1.0	5.0	0	5.0	0	4.9	0
PLAY	4.9	1.0	3.3	0	0	1.0	5.0	0	5.0	1.0	5.0	0	5.0	1.0	5.0	0	5.0	0	5.0	0
STOP	4.9	1.1	3.3	0	0	1.0	5.0	0	5.0	1.0	5.0	0	5.0	1.0	5.0	0	5.0	0	4.9	0
Ref No.	P9001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	3.3	3.3	0	0	3.3	0	3.0	2.5	0	2.5	0	0	0	0	0	0	0	2.4	0	0
PLAY	3.3	3.3	0	0	3.3	0	3.0	2.5	0	2.5	0	0	0	0	0	0	0	2.4	0	0
STOP	3.3	3.3	0	0	3.3	0	3.0	2.5	0	2.5	0	0	0	0	0	0	0	2.4	0	0
Ref No.	P9001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0	2.5	0	0	4.9	0	0	4.9	5.0	2.3	0	1.6	0	3.3	3.3	3.3	0	1.5	5.0	1.5
PLAY	0	2.5	0	0	5.0	0	0	5.0	5.0	2.3	0	1.6	0	3.3	3.3	3.3	0	1.5	5.0	1.5
STOP	0	2.5	0	0	5.0	0	0	4.9	5.0	2.4	0	1.6	0	3.3	3.3	3.3	0	1.5	5.0	1.5
Ref No.	P9001																			
MODE	81	82	83	84	85	86	87	88												
REC	6.0	1.2	5.0	1.5	6.0	1.2	6.0	1.2												
PLAY	6.0	1.2	5.0	1.5	6.0	1.2	6.0	1.2												
STOP	6.0	1.2	5.0	1.5	6.0	1.2	6.0	1.2												

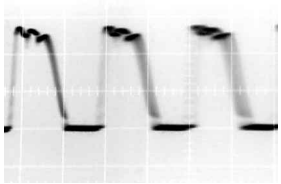


T1150-3 STOP
29Vp-p (5 μ sec.div)

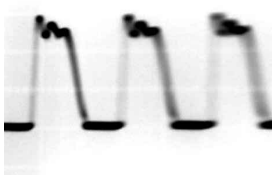
T1150-4 STOP
330Vp-p (5 μ sec.div)



T1150-6 STOP
11Vp-p (5m sec.div)



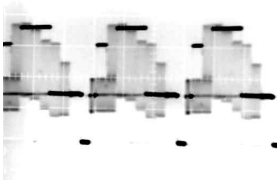
T1150-8 STOP
15Vp-p (5 μ sec.div)



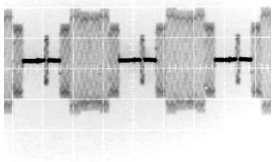
T1150-9,10 STOP
15Vp-p (5 μ sec.div)

IC1150-1 STOP
8.0Vp-p (5 μ sec.div)

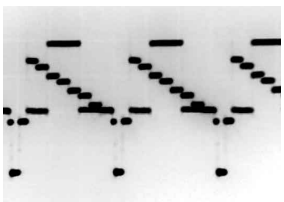
IC1150-2 STOP
1.9Vp-p (5 μ sec.div)



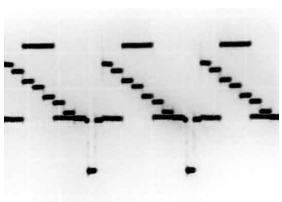
P7402-2 REC/PLAY
0.8Vp-p (20 μ sec.div)



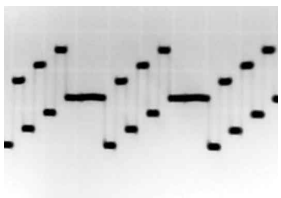
P7402-18 REC/PLAY
0.7Vp-p (20 μ sec.div)



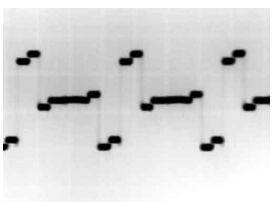
P7402-22 REC/PLAY
0.8Vp-p (20 μ sec.div)



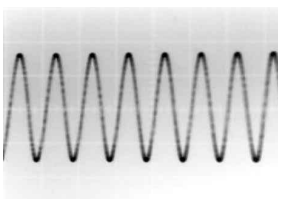
P7402-26 REC/PLAY
0.8Vp-p (20 μ sec.div)



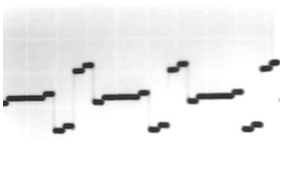
P7402-30 REC/PLAY
0.5Vp-p (20 μ sec.div)



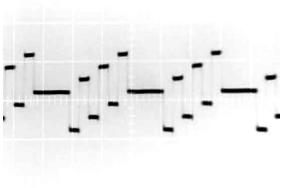
P7402-34 REC/PLAY
0.5Vp-p (20 μ sec.div)



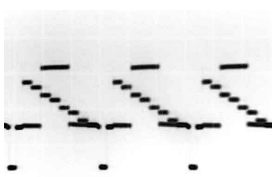
P7402-48,50 REC/PLAY
1.6Vp-p (1m sec.div)



JK3903-18 REC/PLAY
1.0Vp-p (20 μ sec.div)



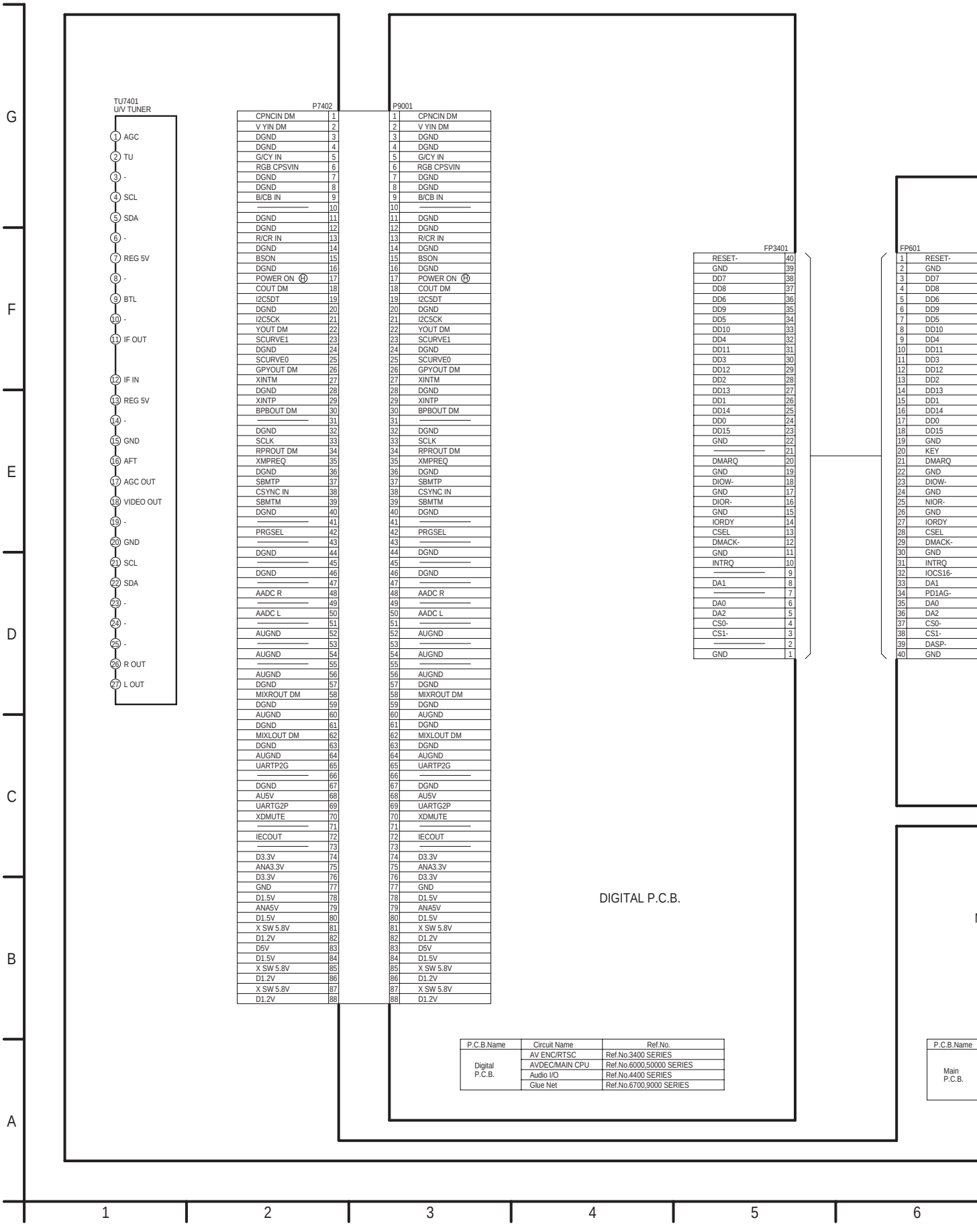
JK3903-19 REC/PLAY
1.0Vp-p (20 μ sec.div)



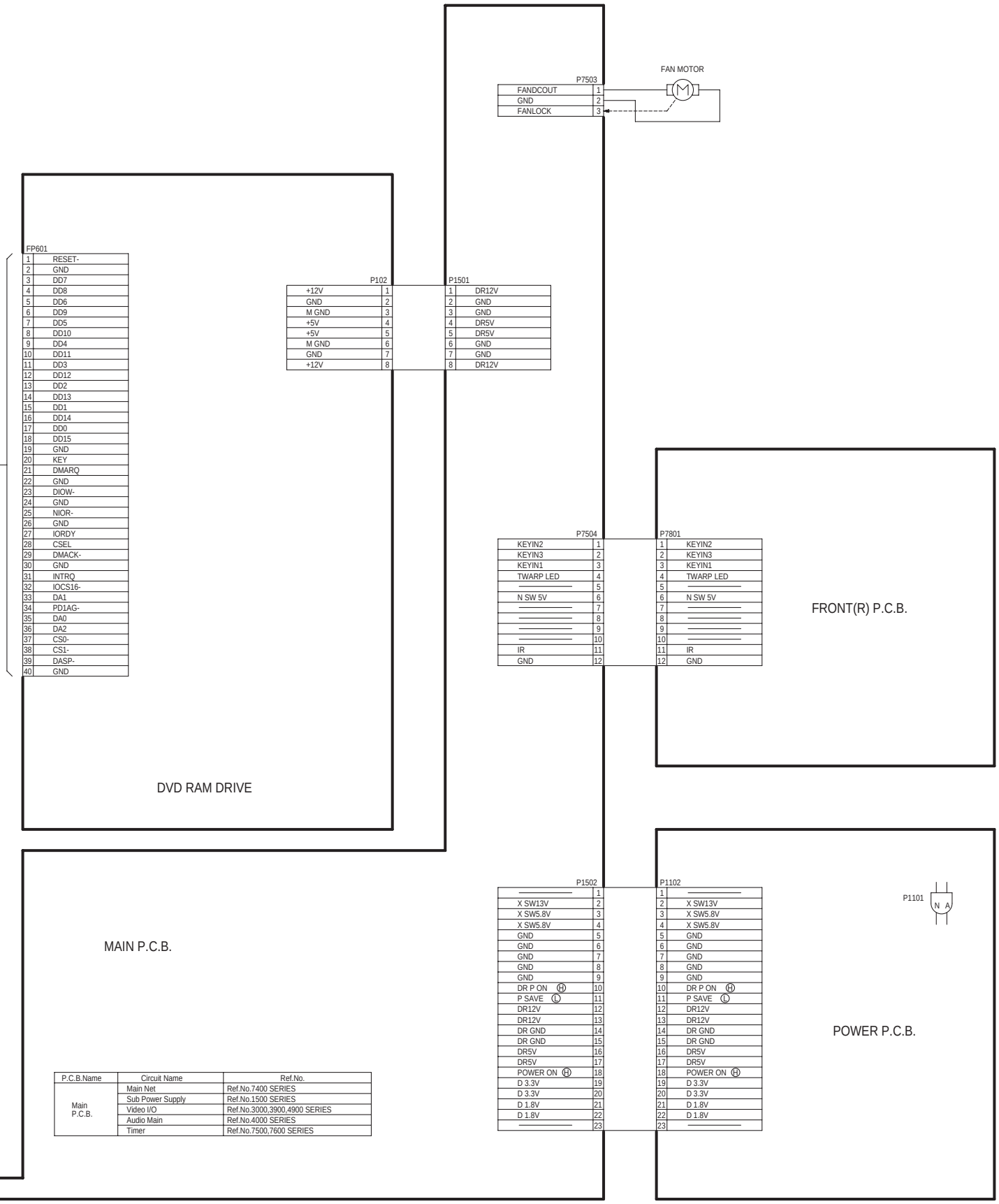
JK3903-20 REC/PLAY
1.5Vp-p (20 μ sec.div)

19 Schematic Diagram

19.1. Interconnection Schematic Diagram



P.C.B.Name	Circuit Name	Ref.No.
Digital P.C.B.	AV ENC/RTSC	Ref.No.3400 SERIES
	AVDEC/MAIN CPU	Ref.No.6000,50000 SERIES
	Audio I/O	Ref.No.4400 SERIES
	Glue Net	Ref.No.6700,9000 SERIES

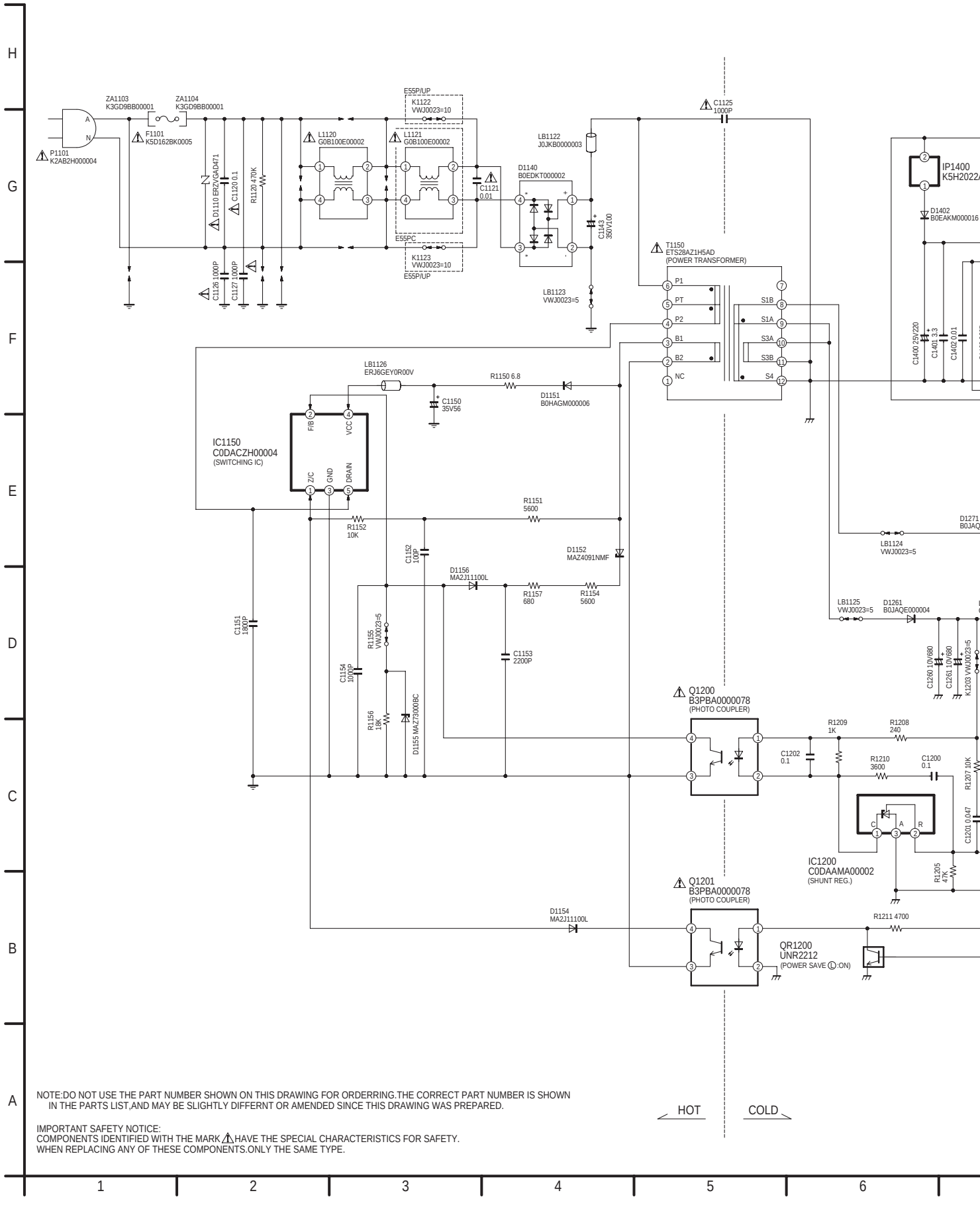


P.C.B.Name	Circuit Name	Ref.No.
Main P.C.B.	Main Net	Ref.No.7400 SERIES
	Sub Power Supply	Ref.No.1500 SERIES
	Video I/O	Ref.No.3000,3900,4900 SERIES
	Audio Main	Ref.No.4000 SERIES
	Timer	Ref.No.7500,7600 SERIES

DMR-E55P/PC
Interconnection Schematic Diagram

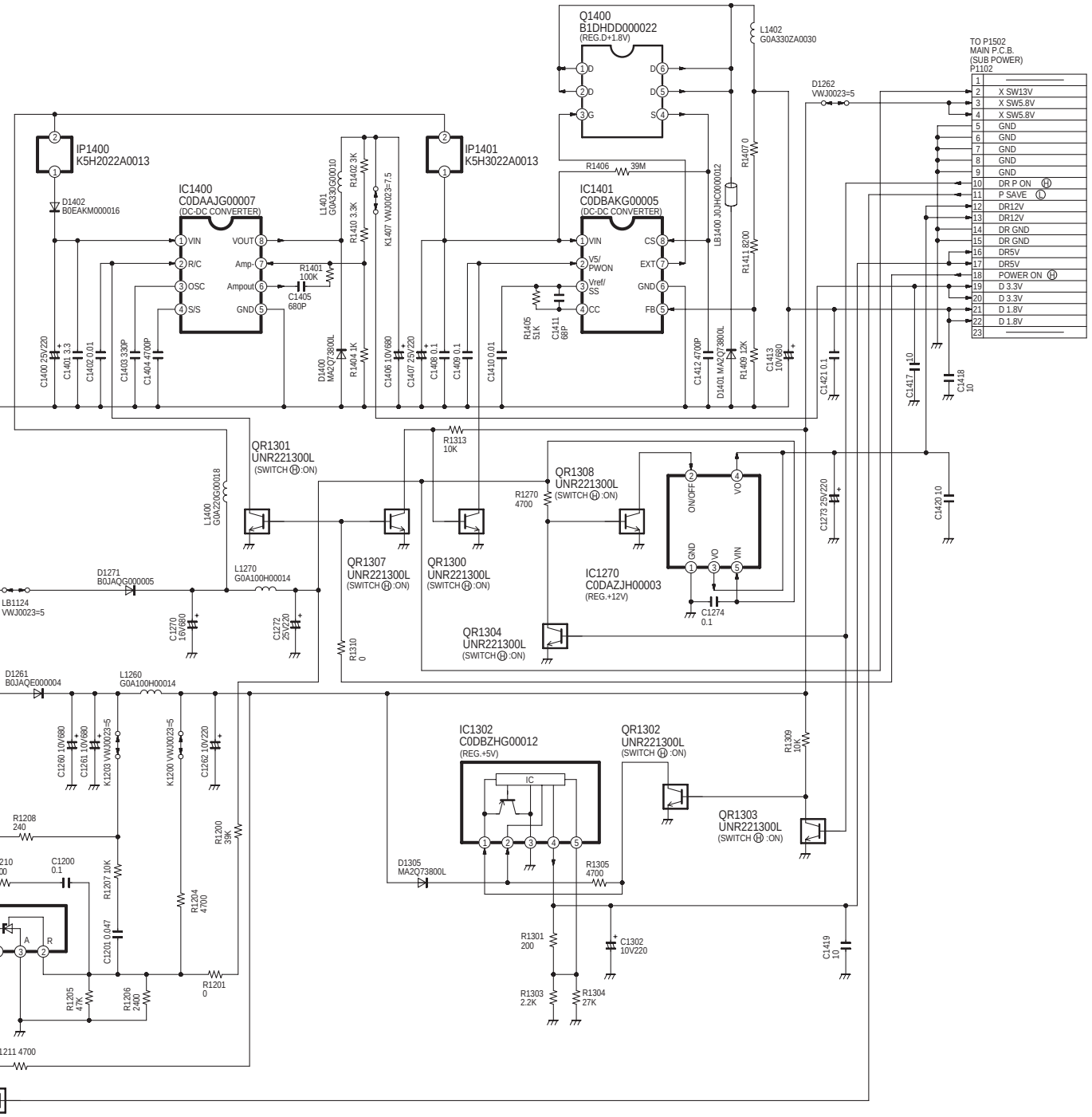
6 7 8 9 10 11

19.2. Main Power Schematic Diagram



NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERRING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.ONLY THE SAME TYPE.

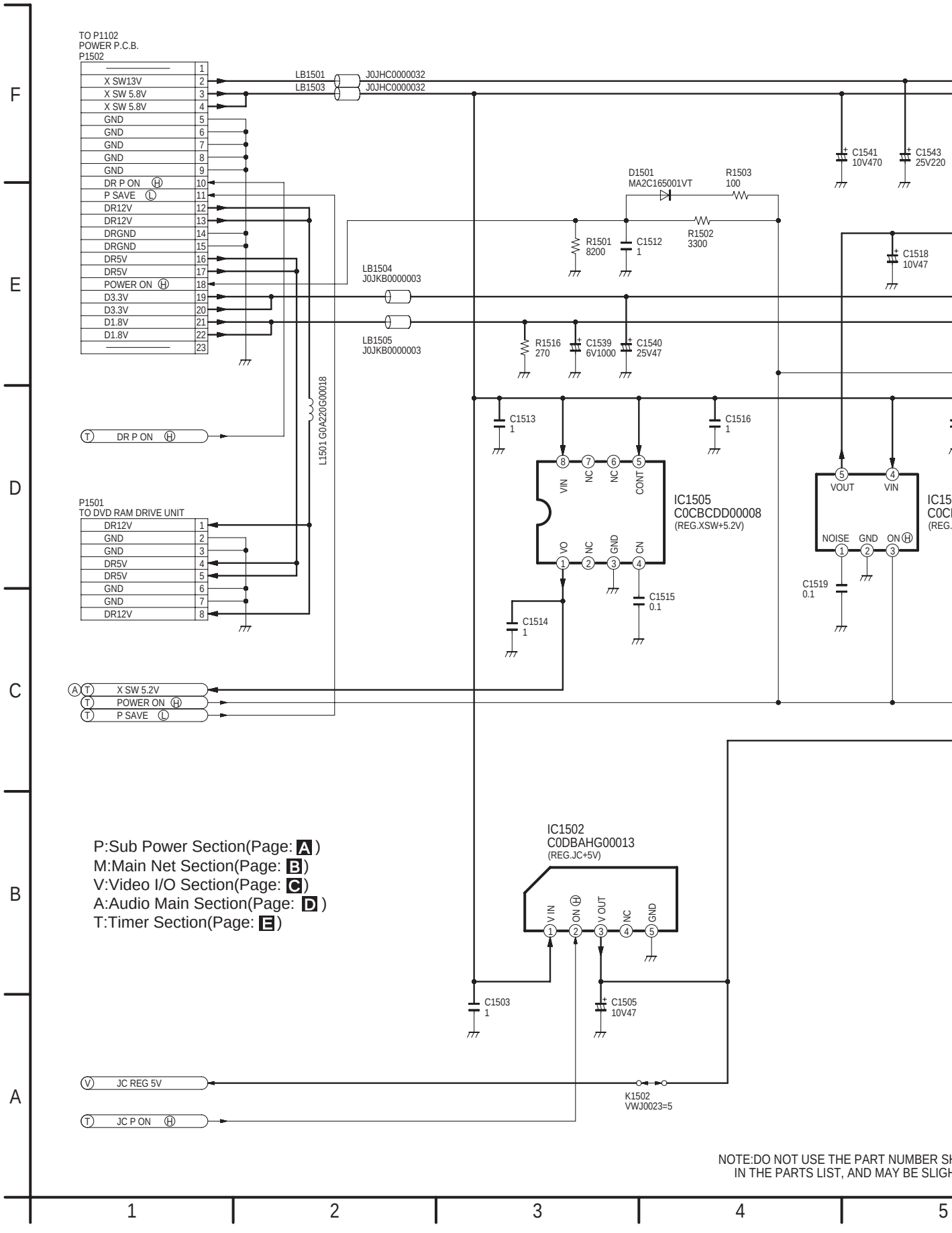


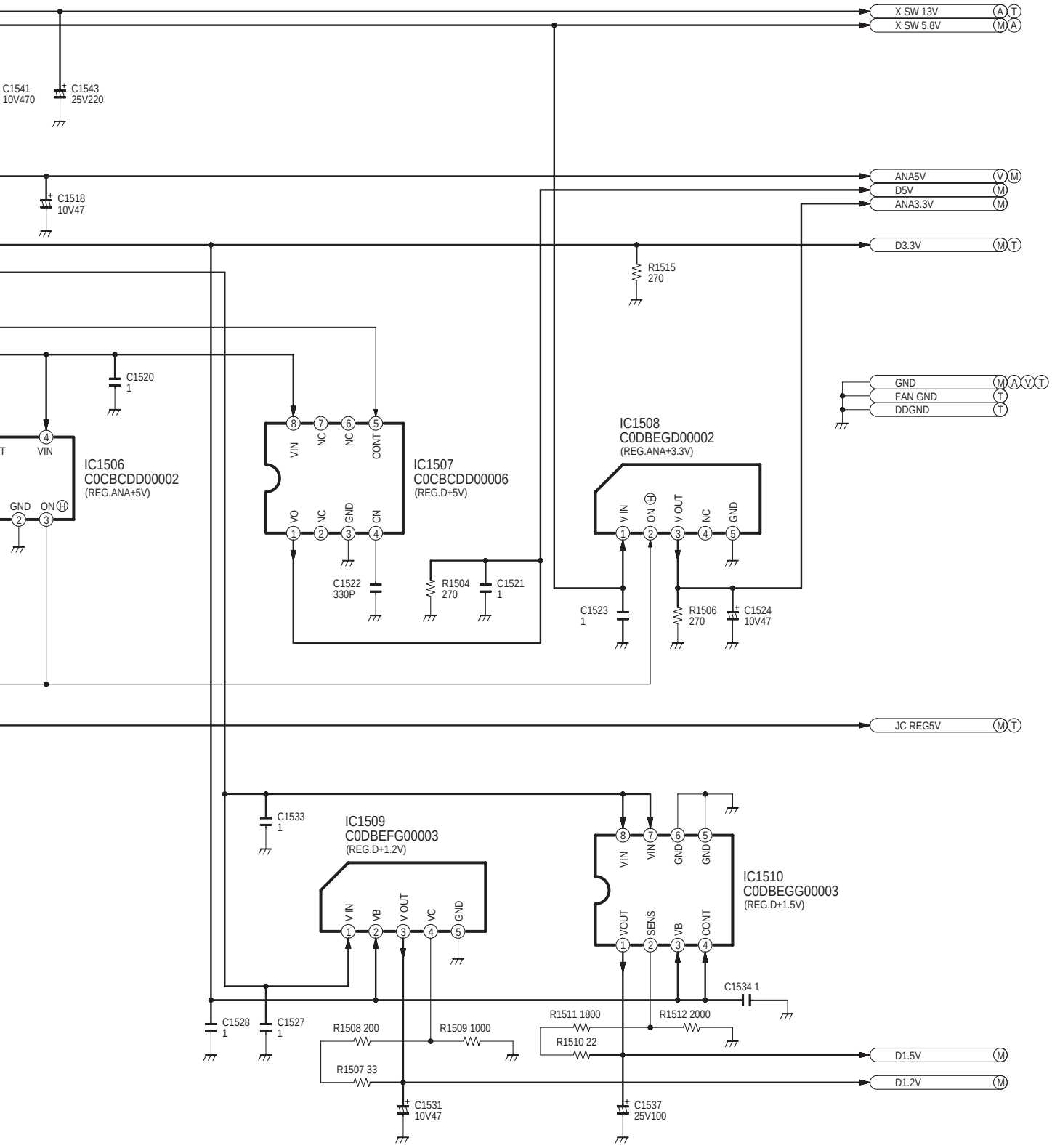
1	
2	X SW13V
3	X SW5.8V
4	X SW5.8V
5	GND
6	GND
7	GND
8	GND
9	GND
10	DR P ON (H)
11	P SAVE (L)
12	DR12V
13	DR12V
14	DR GND
15	DR GND
16	DR5V
17	DR5V
18	POWER ON (H)
19	D 3.3V
20	D 3.3V
21	D 1.8V
22	D 1.8V
23	

DMR-E55P/PC
Main Power
Schematic Diagram

7 | 8 | 9 | 10 | 11 | 12

19.3. Sub Power Section (Main P.C.B. (1/5)) Schematic Diagram (P)



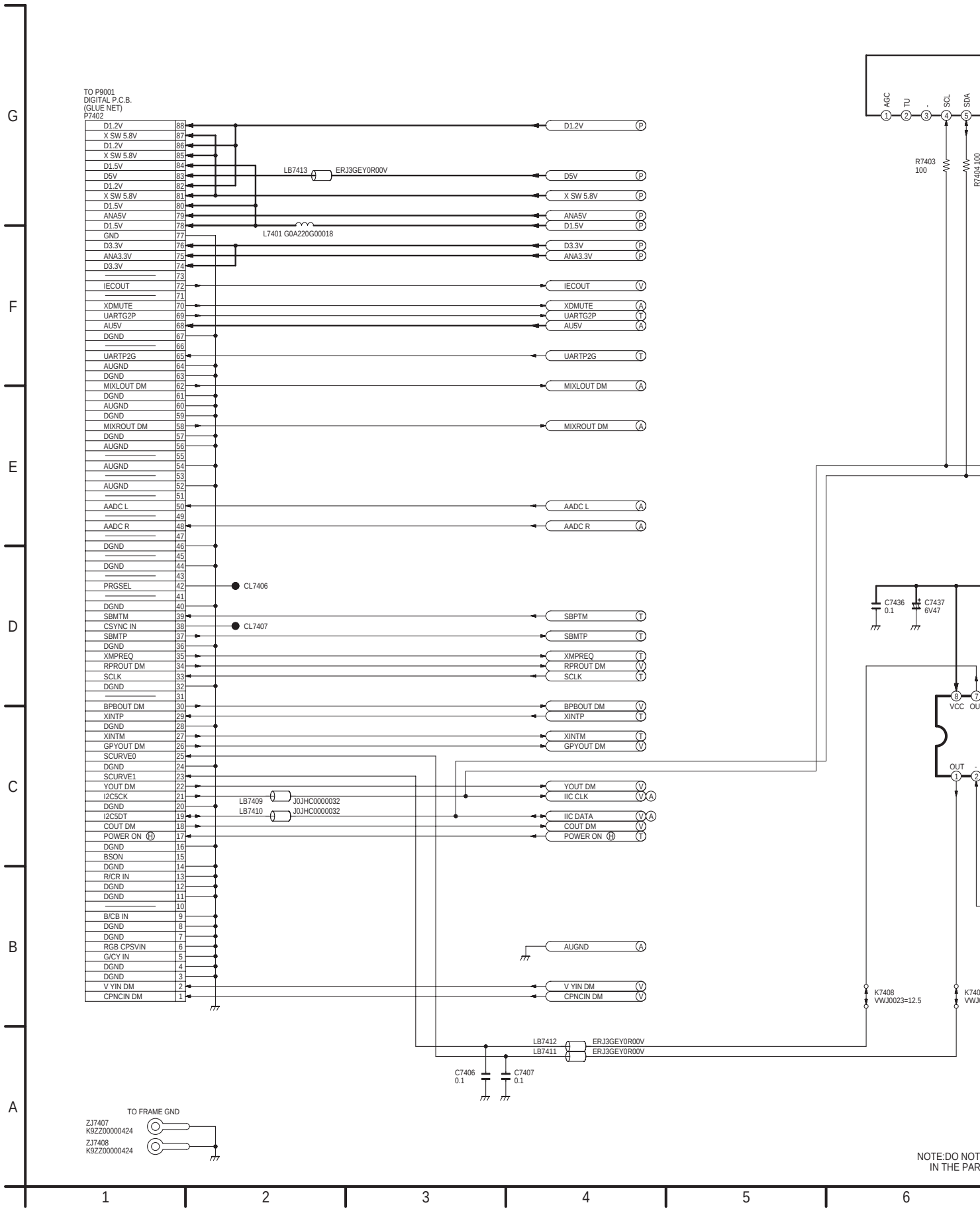


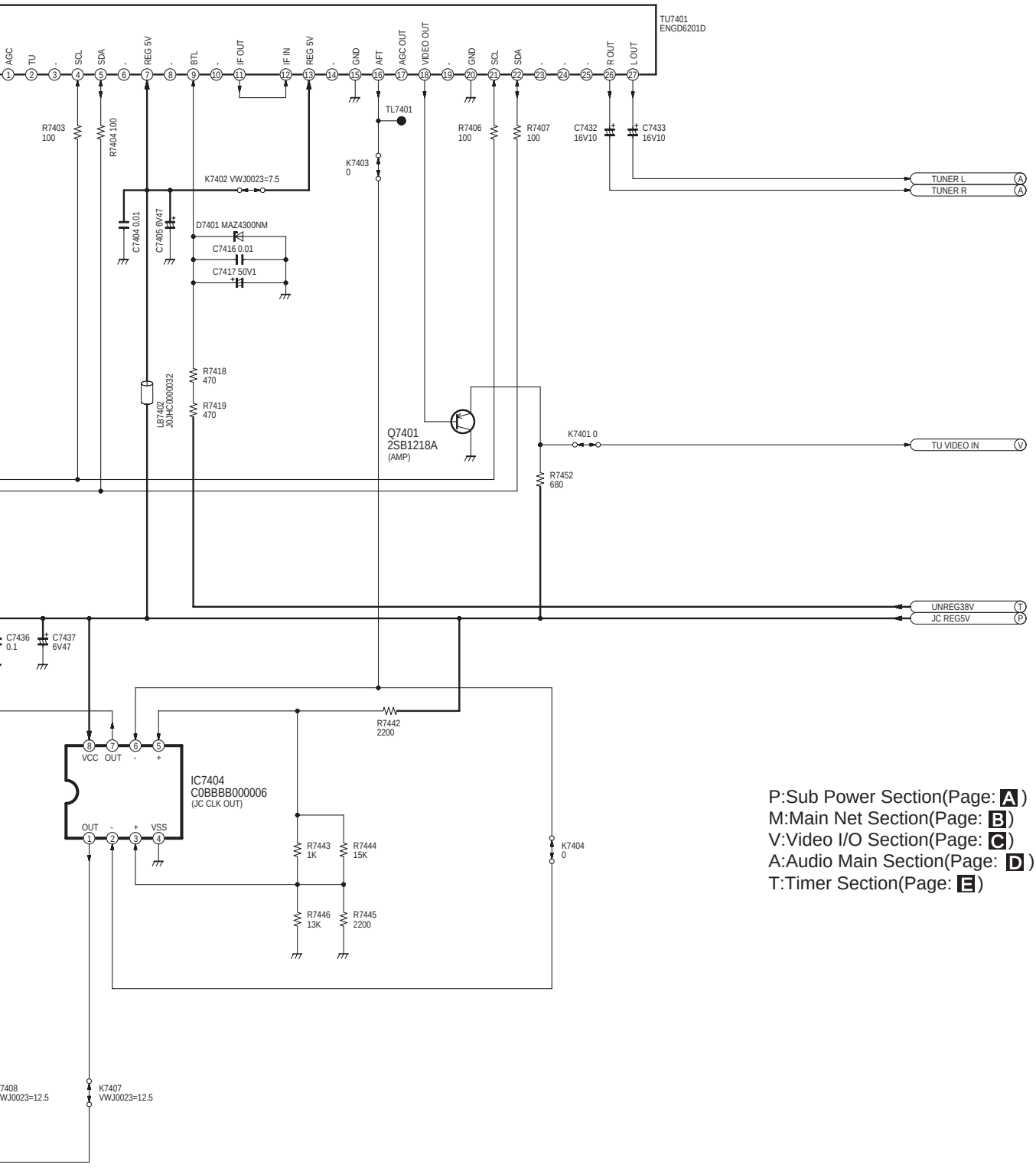
E PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E55P/PC
Sub Power Section (Main P.C.B.(1/5))
Schematic Diagram (P)

5 | 6 | 7 | 8 | 9

19.4. Main Net Section (Main P.C.B. (2/5)) Schematic Diagram (M)





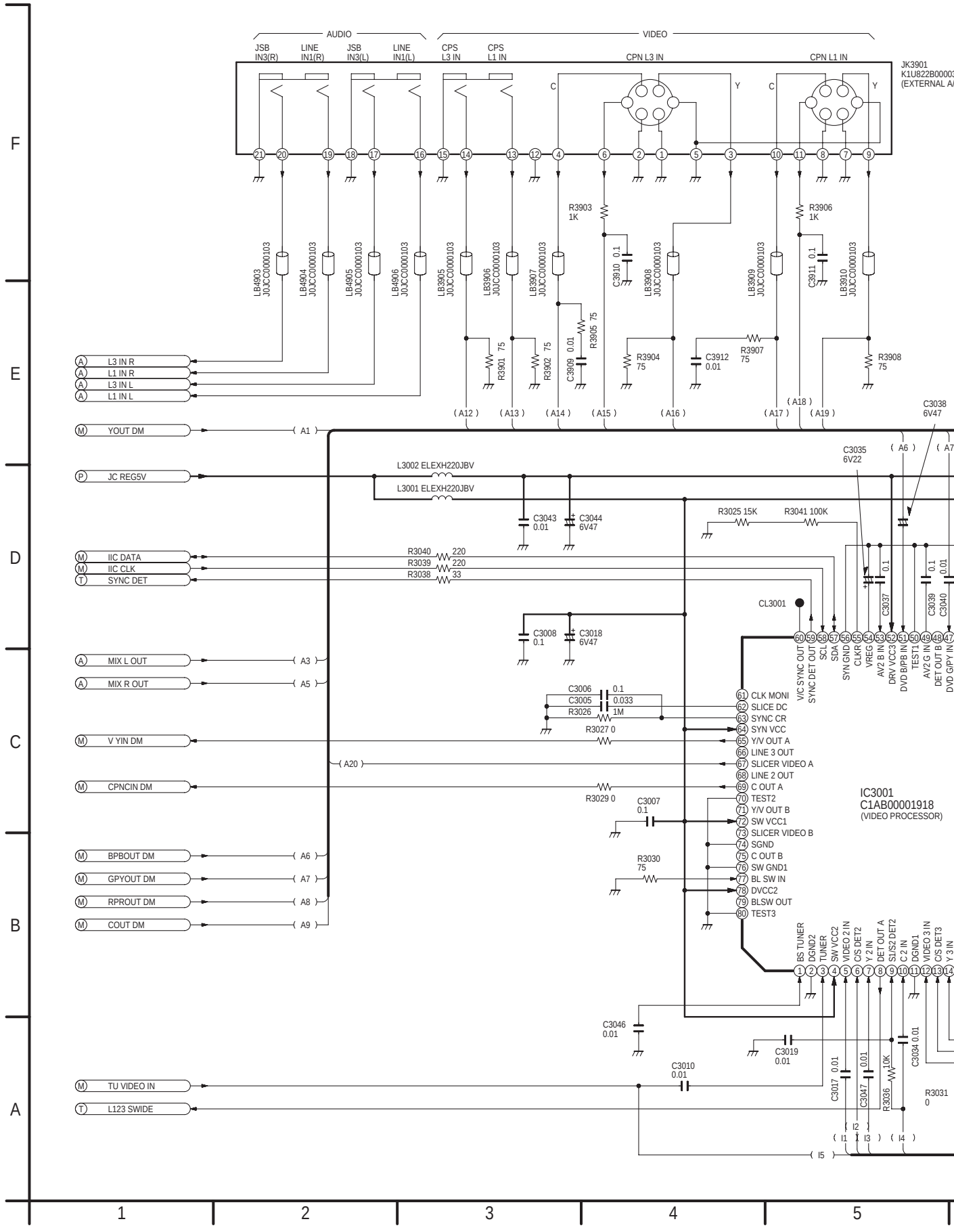
P:Sub Power Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

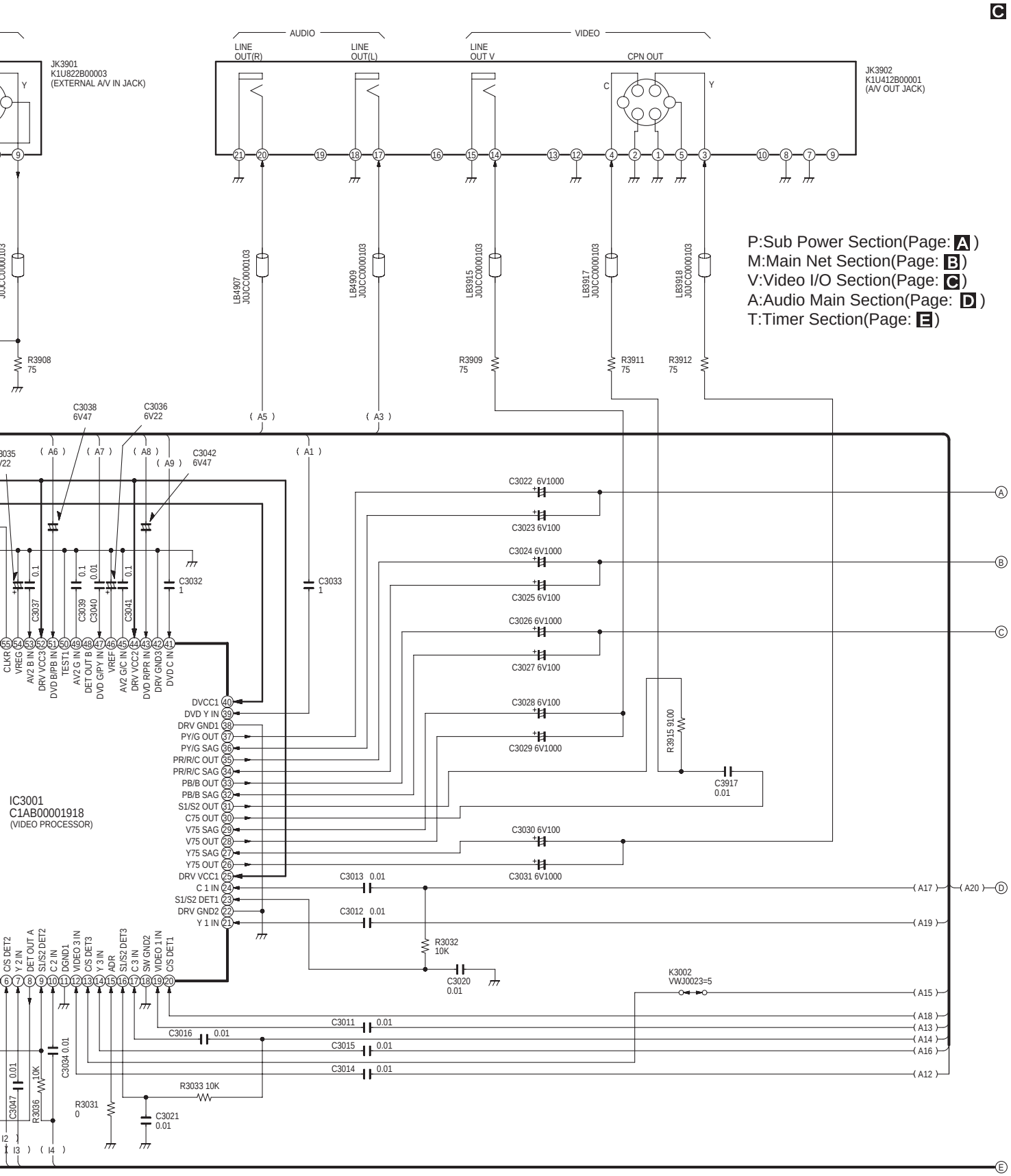
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

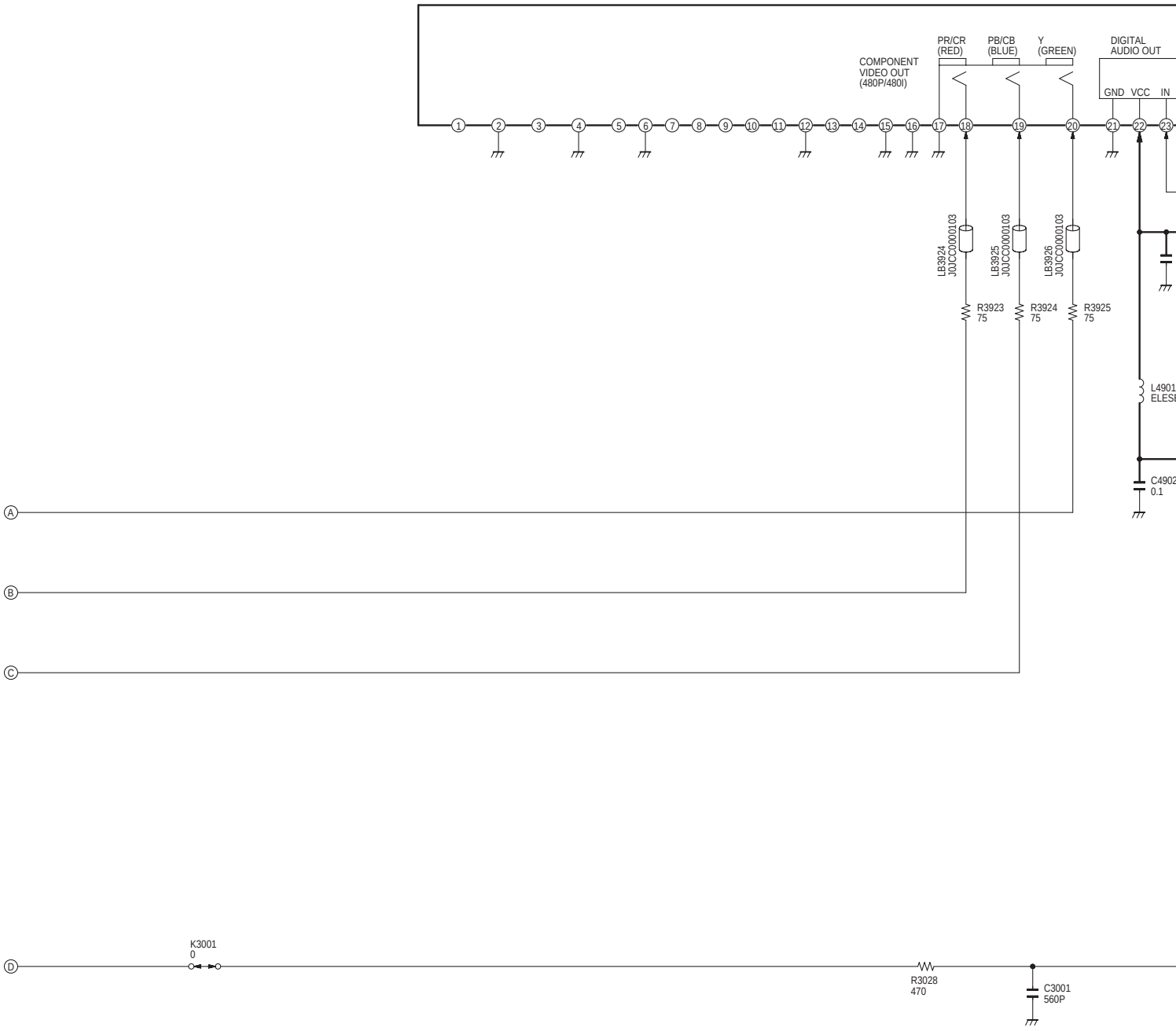
DMR-E55P/PC
Main Net Section (Main P.C.B.(2/5))
Schematic Diagram (M)

6 | 7 | 8 | 9 | 10 | 11

19.5. Video I/O Section (Main P.C.B. (3/5)) Schematic Diagram (V)




C
AUDIO
VIDEO
LINE OUT(R)
LINE OUT(L)
LINE OUT V
CPN OUT
JK3901
K1U822B00003
(EXTERNAL A/V IN JACK)
JK3902
K1U412B00001
(A/V OUT JACK)
P:Sub Power Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)
IC3001
C1AB00001918
(VIDEO PROCESSOR)
DMR-E55P/PC
Video I/O Section (Main P.C.B.(3/5)) Schematic Diagram (V)



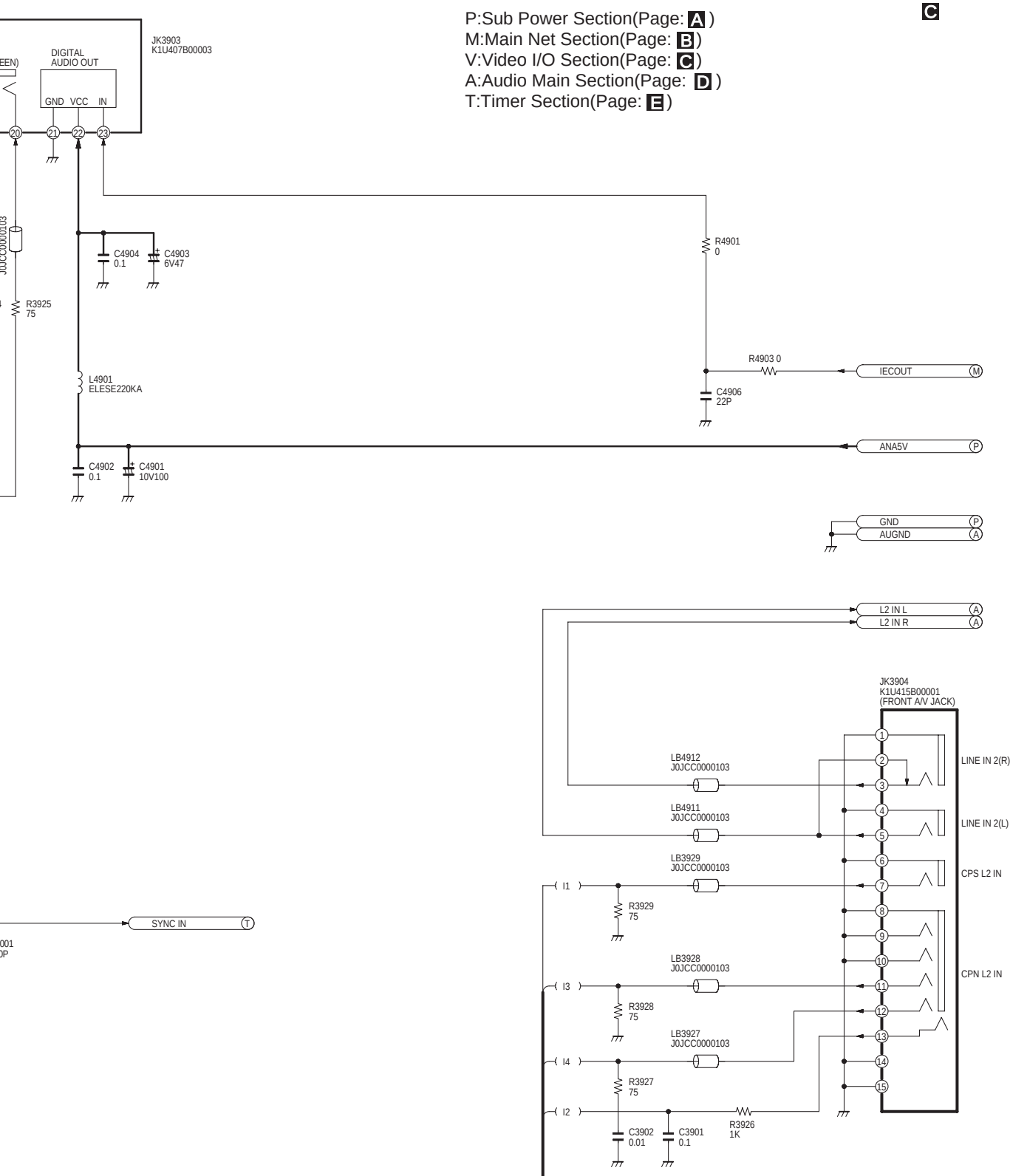
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E55P/PC
Video I/O Section (Main P.C.B.(3/5))
Schematic Diagram (V)

11 12 13 14 15 16

P:Sub Power Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

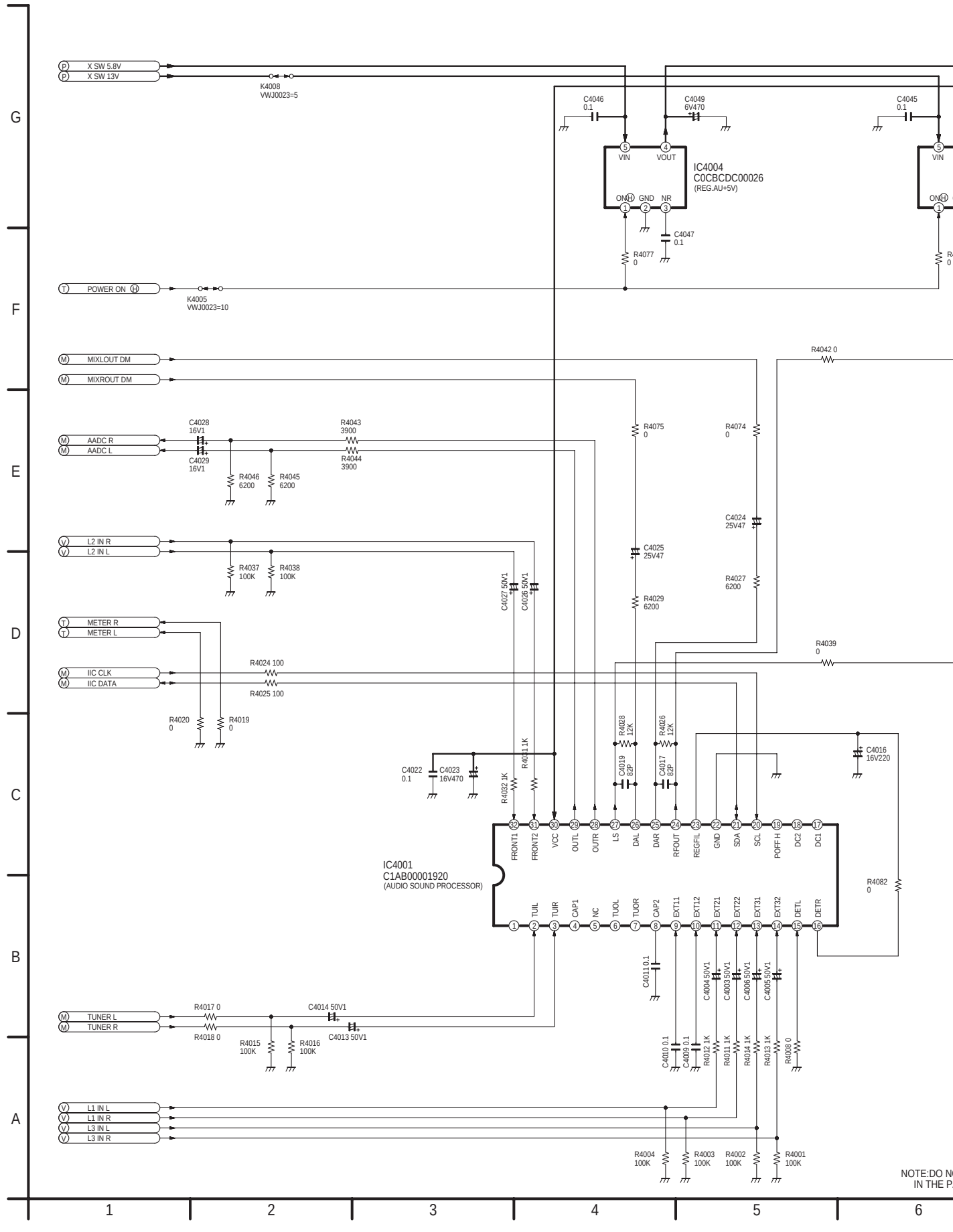
C



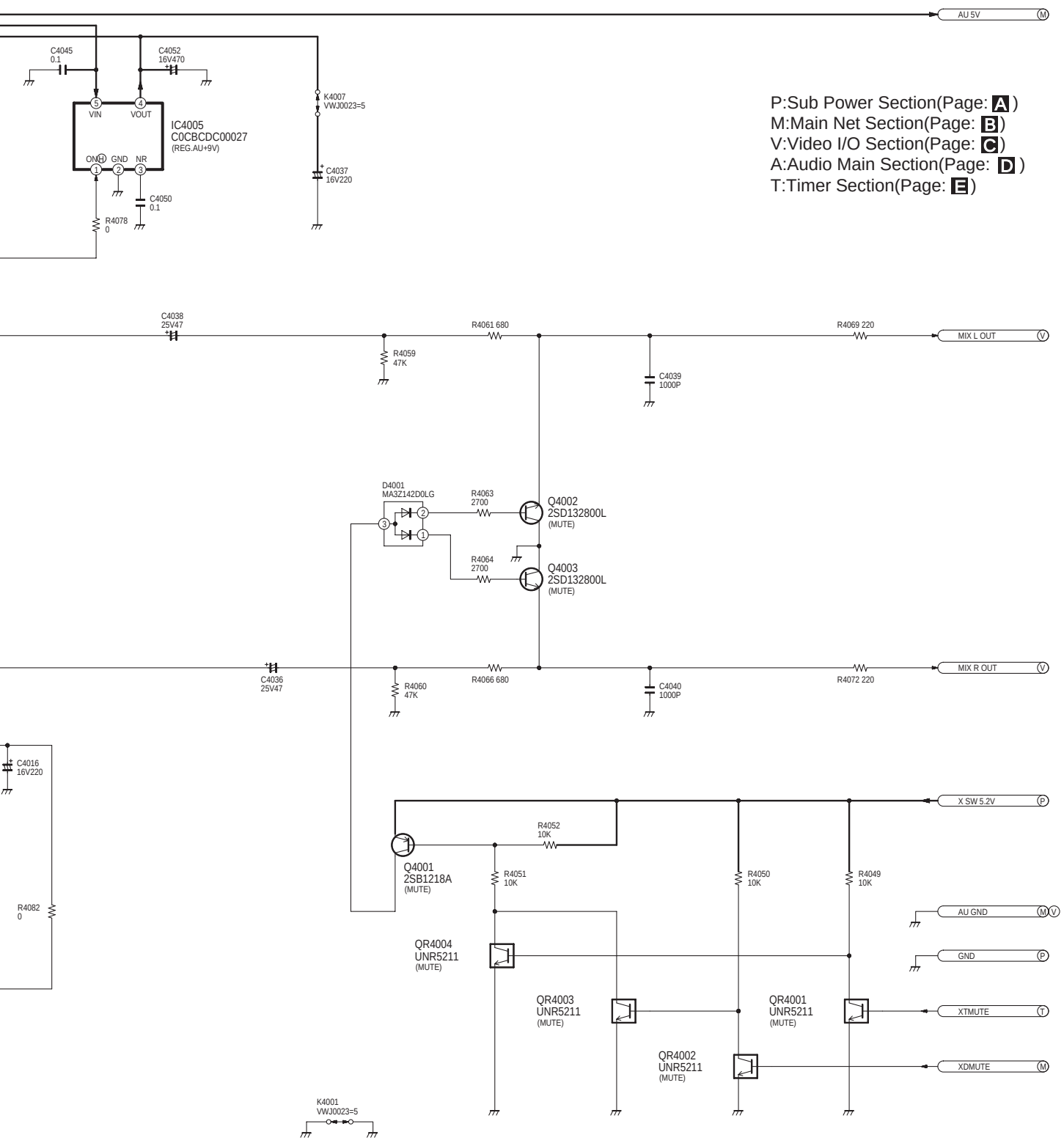
DMR-E55P/PC
Video I/O Section (Main P.C.B.(3/5))
Schematic Diagram (V)

16 | 17 | 18 | 19 | 20

19.6. Audio Main Section (Main P.C.B. (4/5)) Schematic Diagram (A)



D



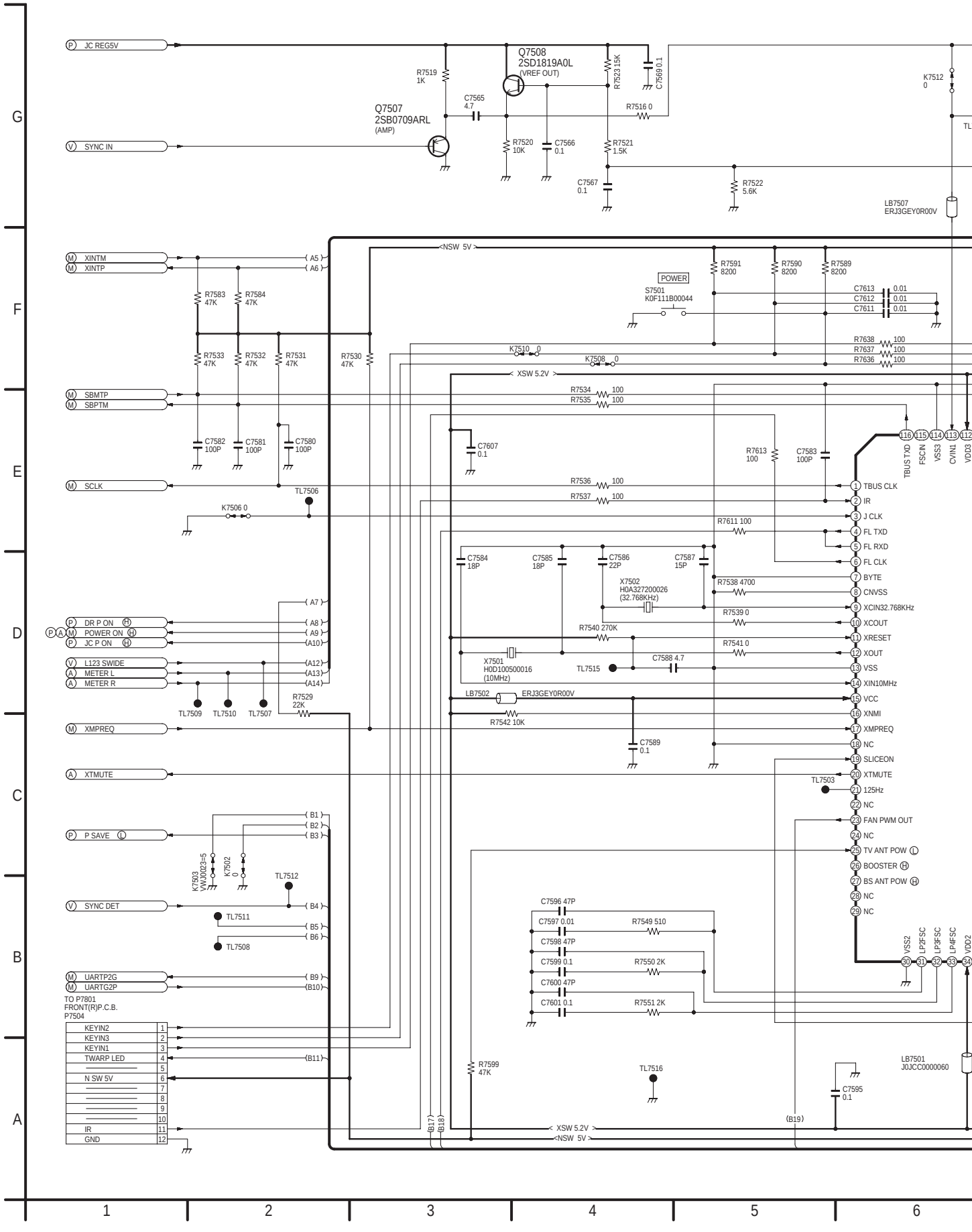
P:Sub Power Section(Page: A)
M:Main Net Section(Page: B)
V:Video I/O Section(Page: C)
A:Audio Main Section(Page: D)
T:Timer Section(Page: E)

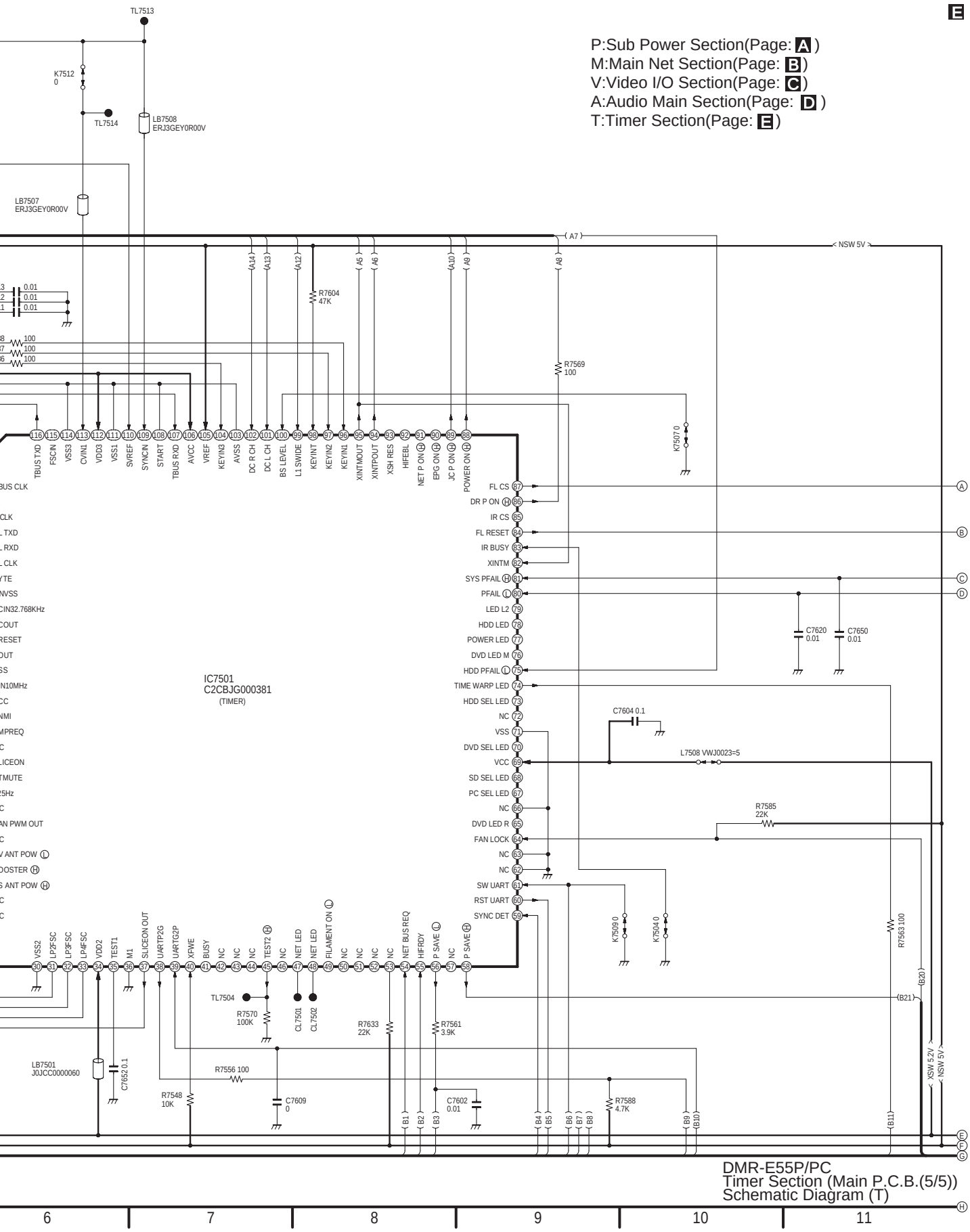
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E55P/PC
Audio Main Section (Main P.C.B.(4/5))
Schematic Diagram (A)

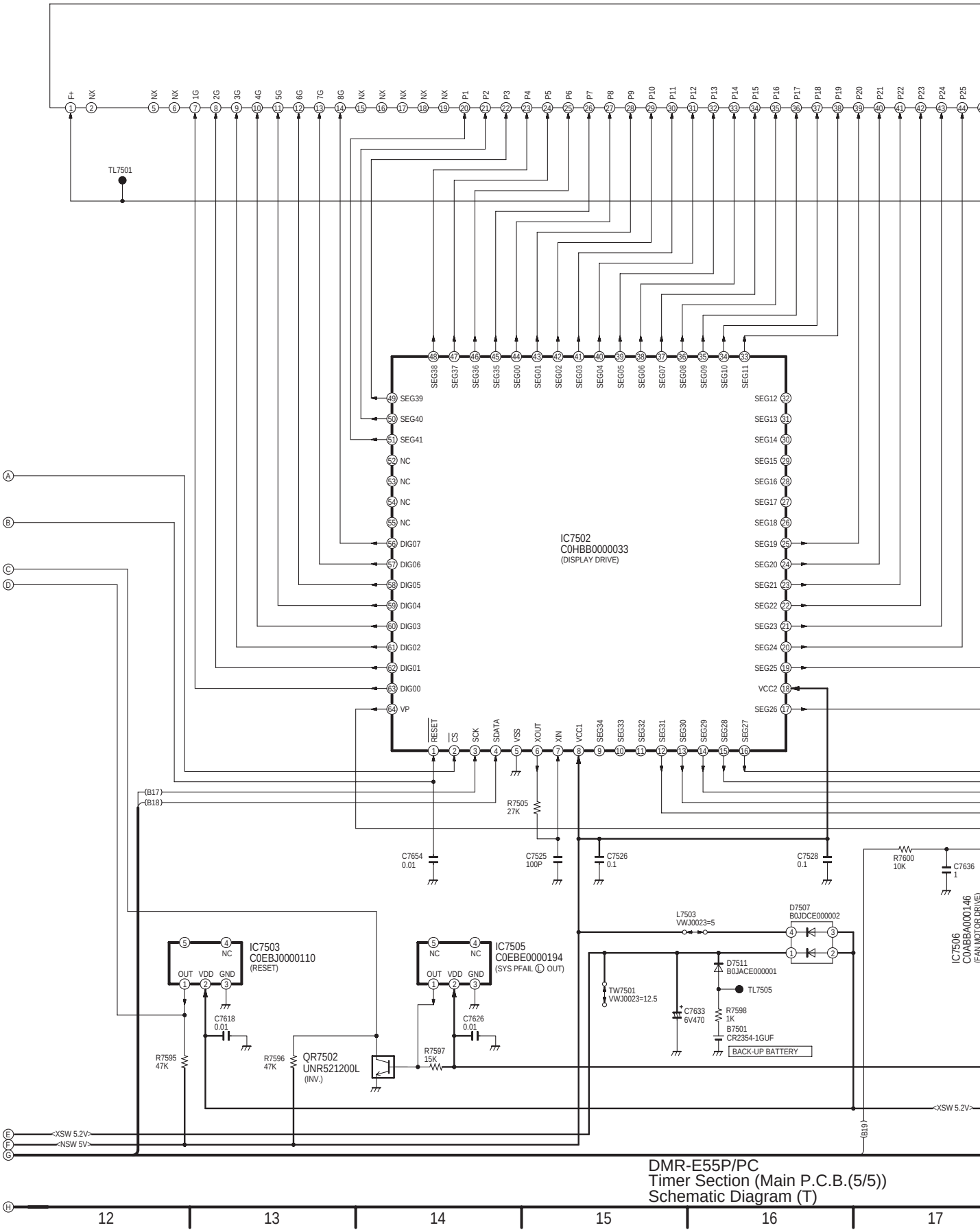
6 | 7 | 8 | 9 | 10 | 11

19.7. Timer Section (Main P.C.B. (5/5)) Schematic Diagram (T)

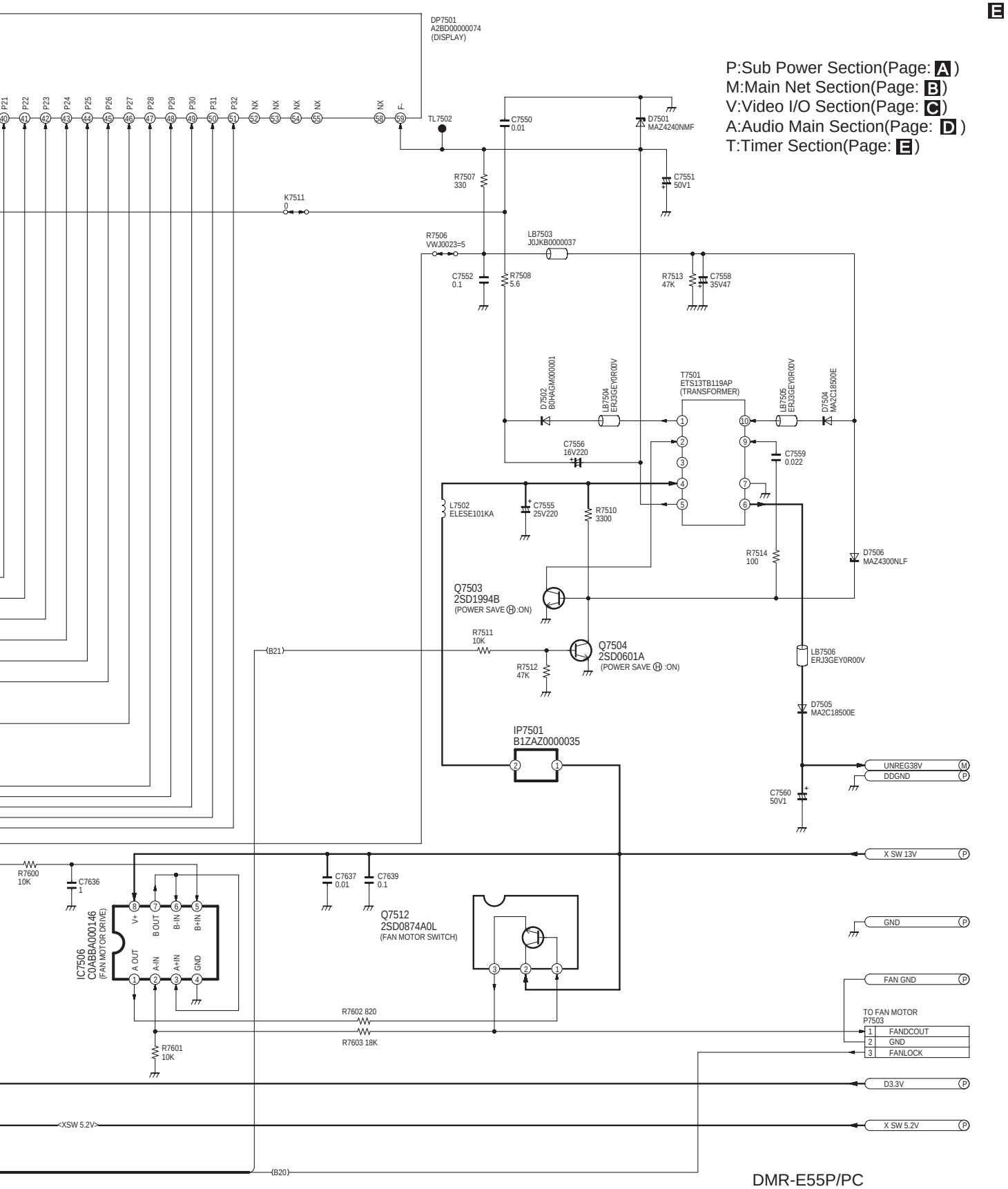




DMR-E55P/PC
Timer Section (Main P.C.B.(5/5))
Schematic Diagram (T)



DMR-E55P/PC
Timer Section (Main P.C.B.(5/5))
Schematic Diagram (T)

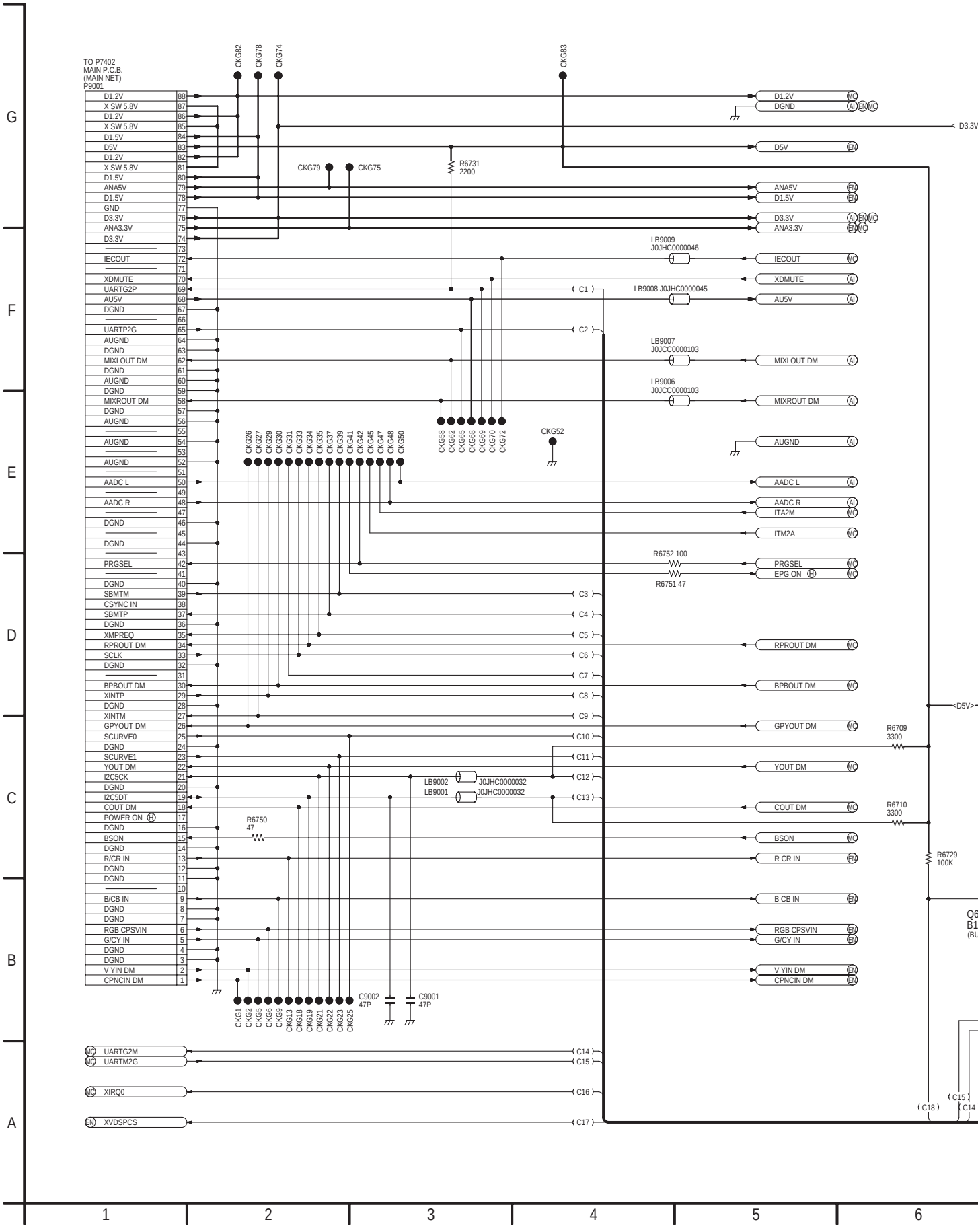


NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

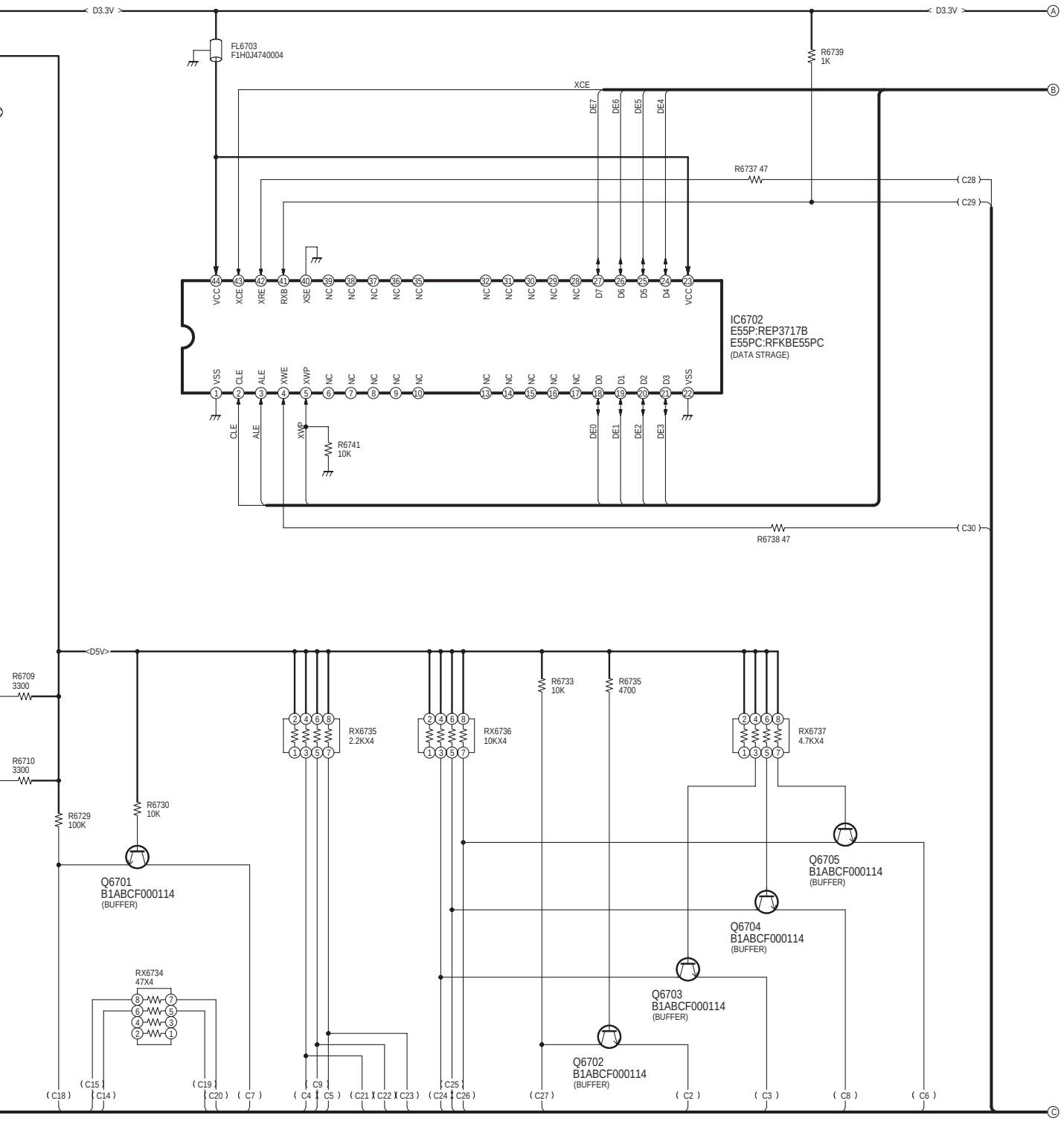
DMR-E55P/PC
Timer Section (Main P.C.B.(5/5))
Schematic Diagram (T)

17 | 18 | 19 | 20 | 21 | 22

19.8. Glue Net Section (Digital P.C.B. (1/4)) Schematic Diagram (GN)

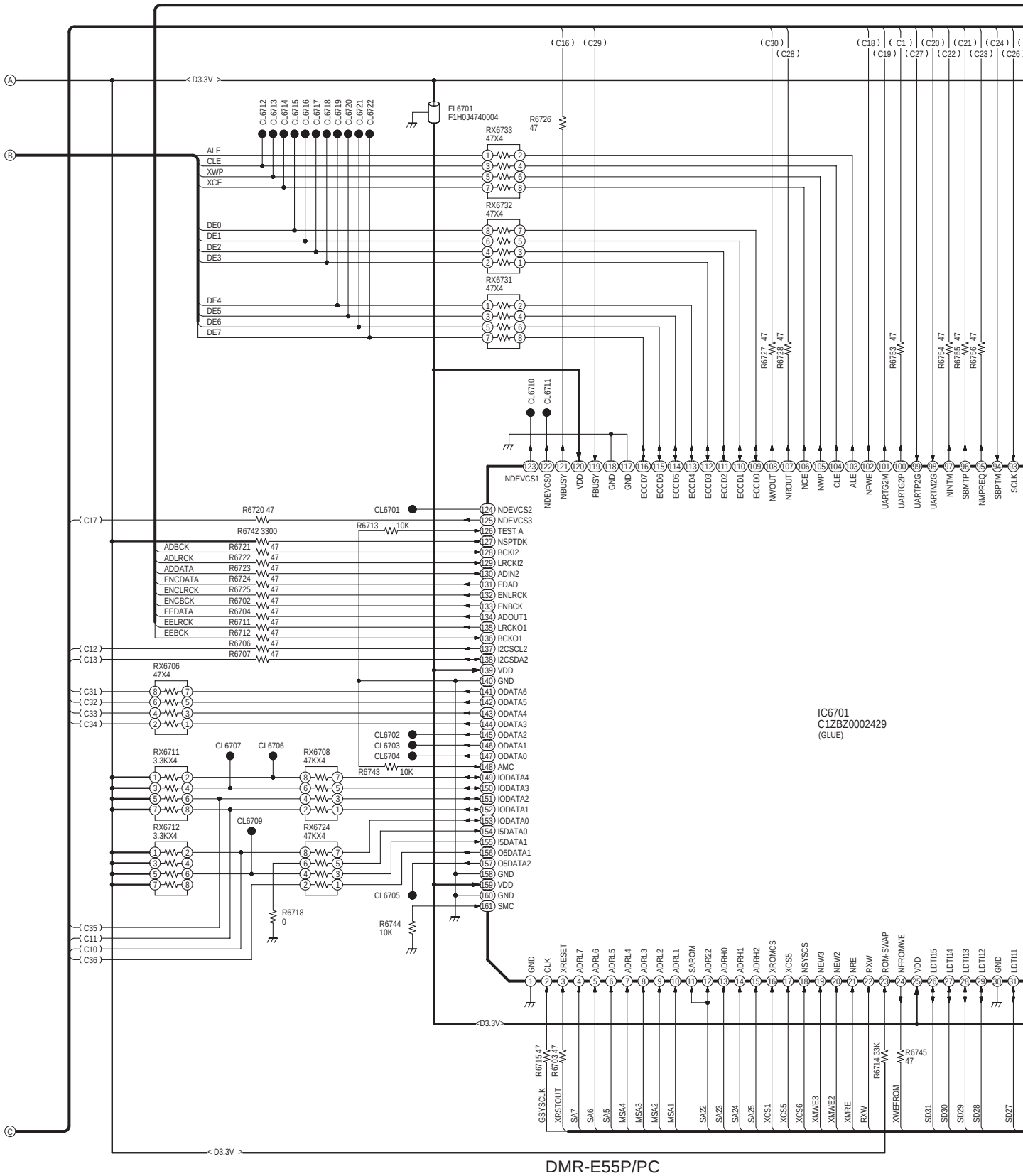


GN:Glue Net Section(Page: F)
EN:AV Encoder/RTSC Section(Page: G)
MC:AV Decoder/Main CPU Section(Page: H)
AI:Audio I/O Section(Page: I)



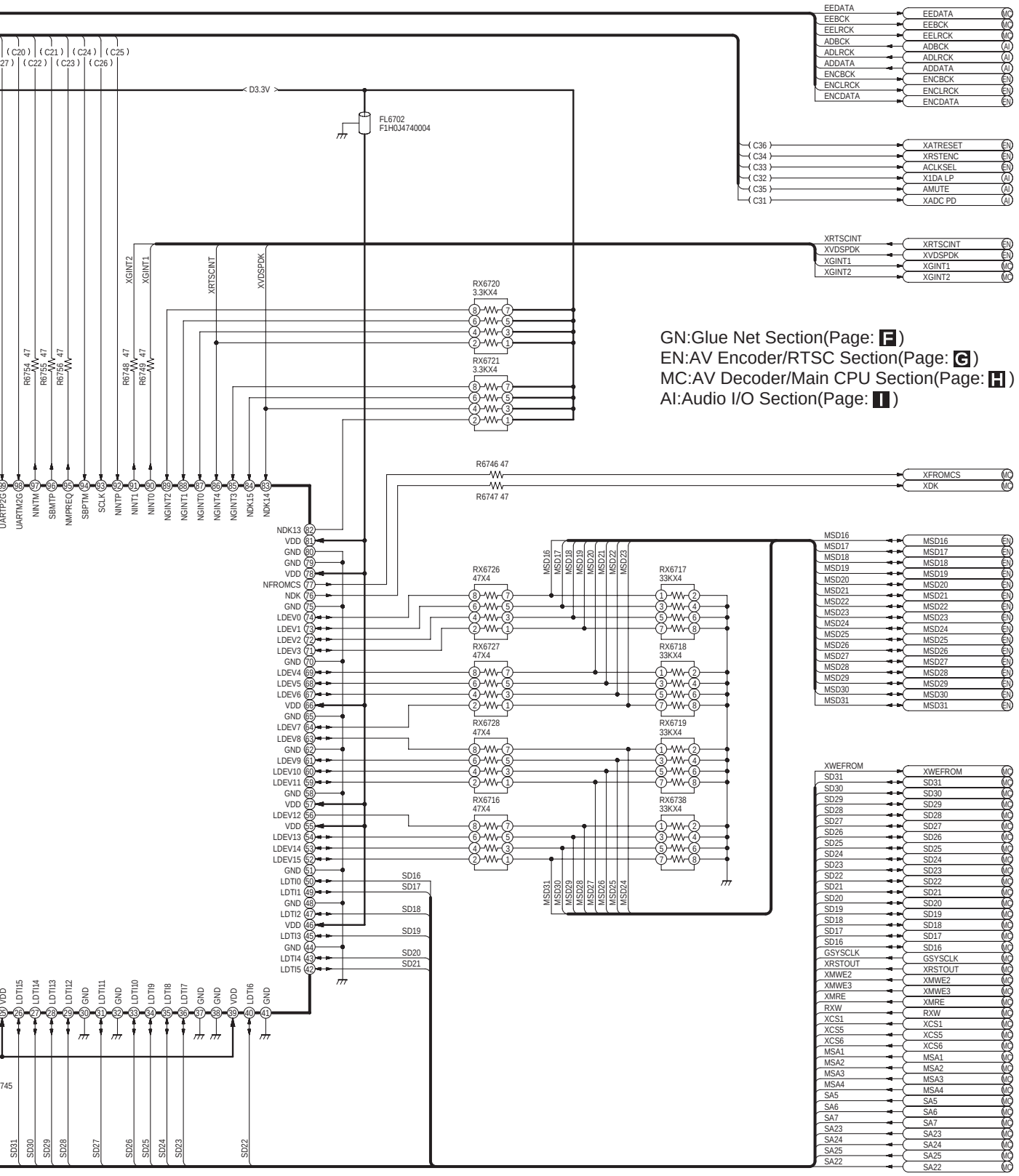
DMR-E55P/PC
Glue Net Section (Digital P.C.B.(1/4))
Schematic Diagram (GN)

6 | 7 | 8 | 9 | 10 | 11



DMR-E55P/PC
Glue Net Section (Digital P.C.B.(1/4))
Schematic Diagram (GN)

NOTE:DO
IN THI

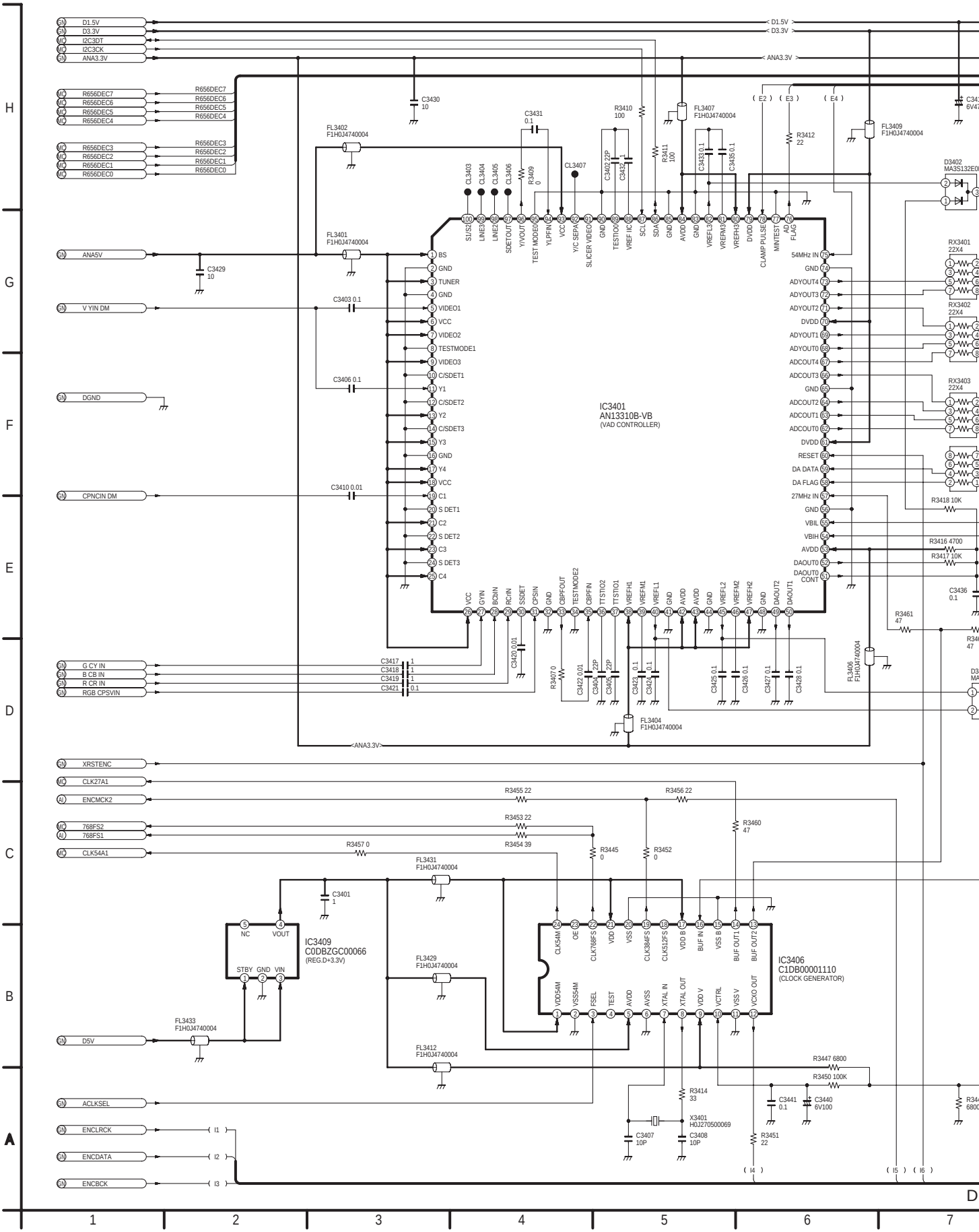


NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST,AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

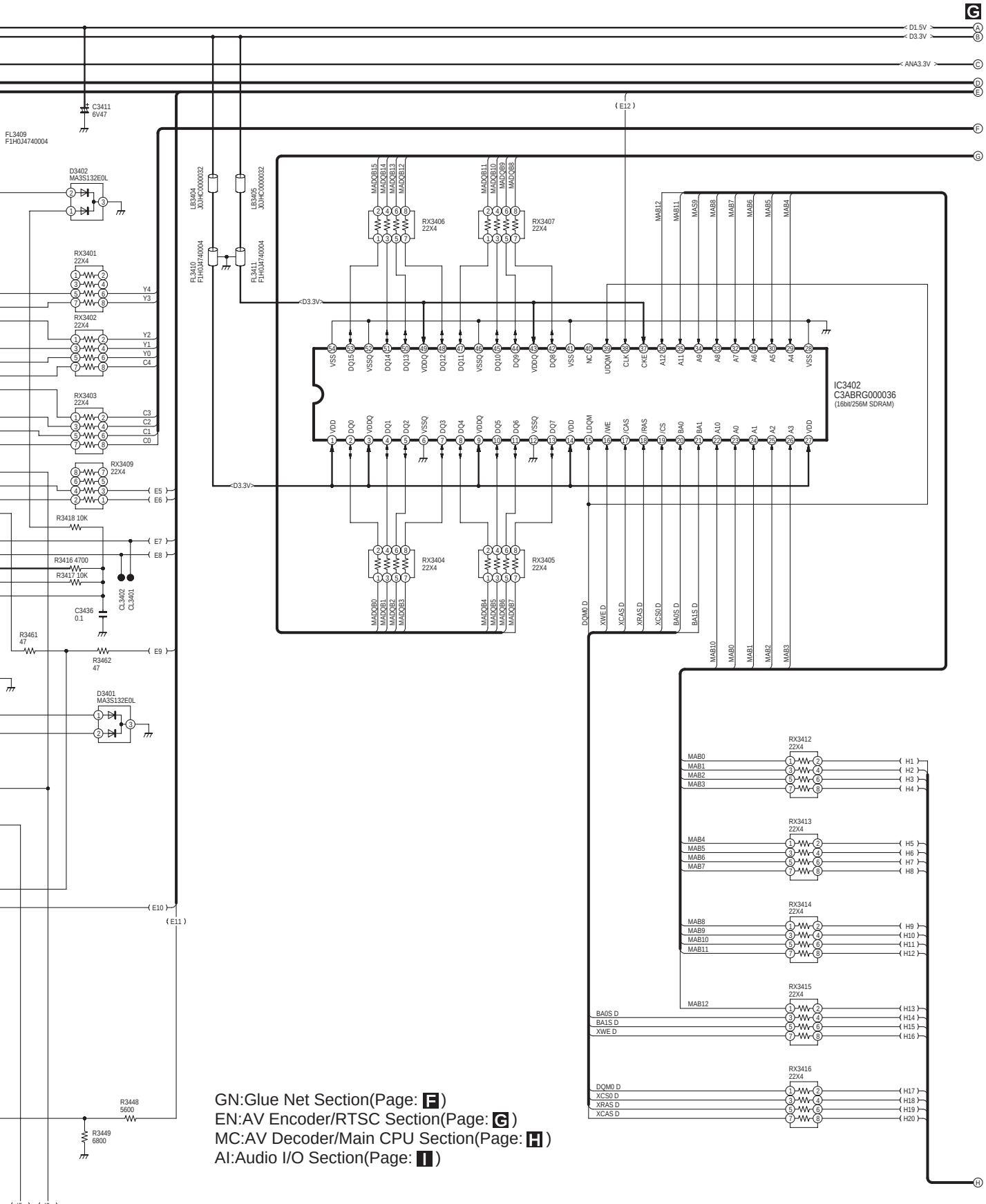
DMR-E55P/PC
Glue Net Section (Digital P.C.B.(1/4))
Schematic Diagram (GN)

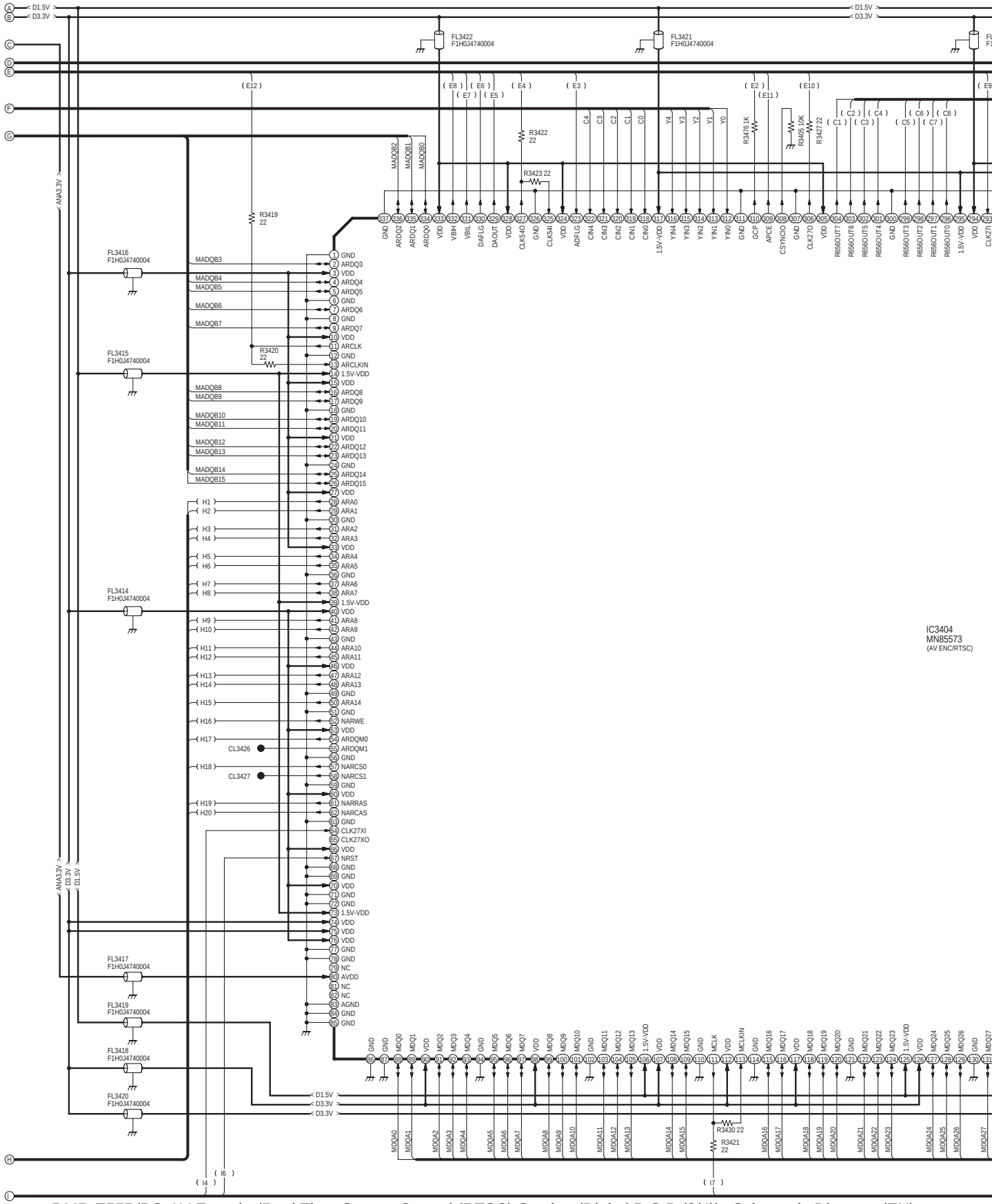
17	18	19	20	21	22

19.9. AV Encoder/Real Time Stream Control (RTSC) Section (Digital P.C.B. (2/4)) Sch

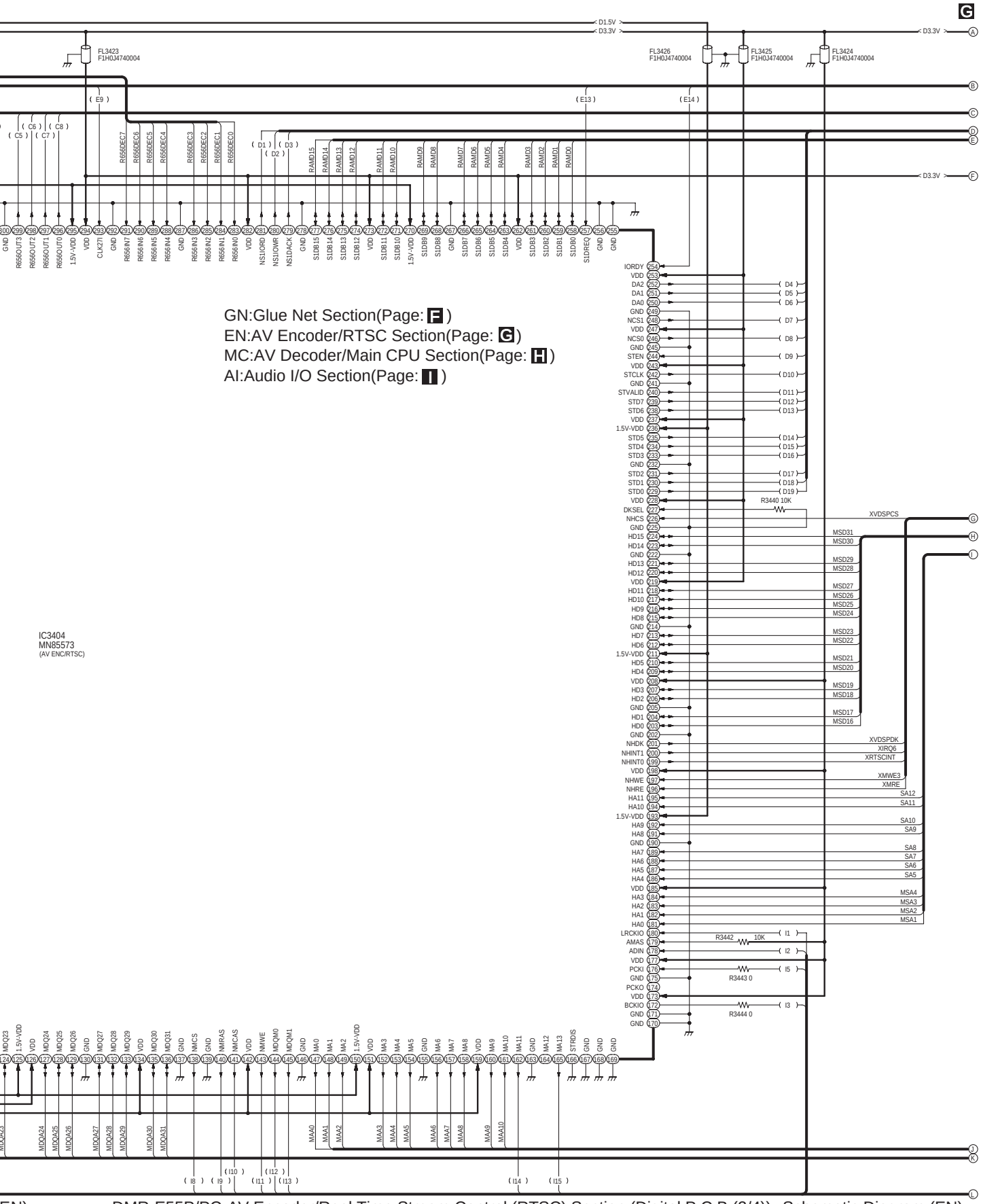


(2/4)) Schematic Diagram (EN)



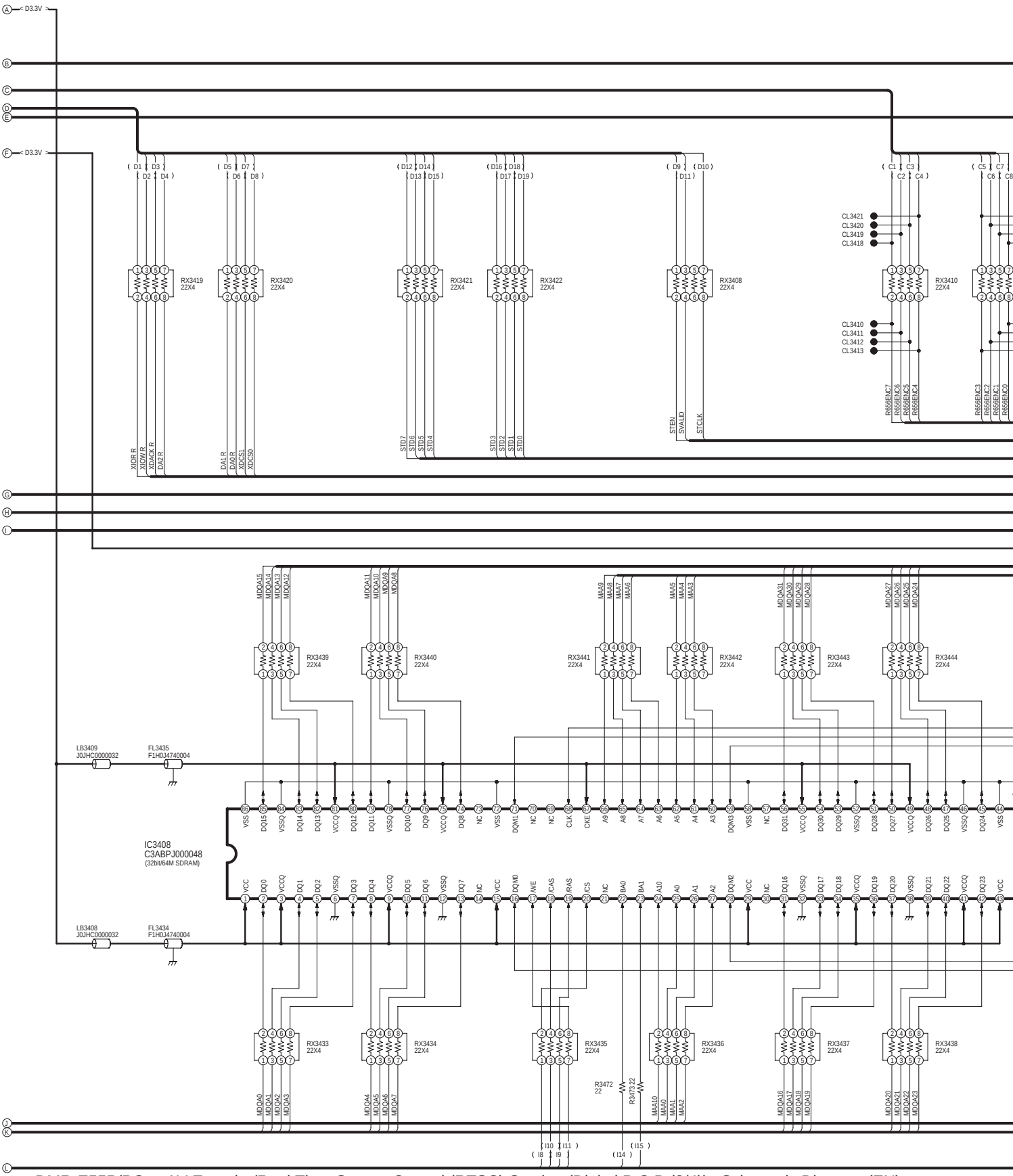


DMR-E55P/PC AV Encoder/Real Time Stream Control (RTSC) Section (Digital P.C.B.(2/4)) Schematic Diagram (EN)



EN) DMR-E55P/PC AV Encoder/Real Time Stream Control (RTSC) Section (Digital P.C.B.(2/4)) Schematic Diagram (EN)

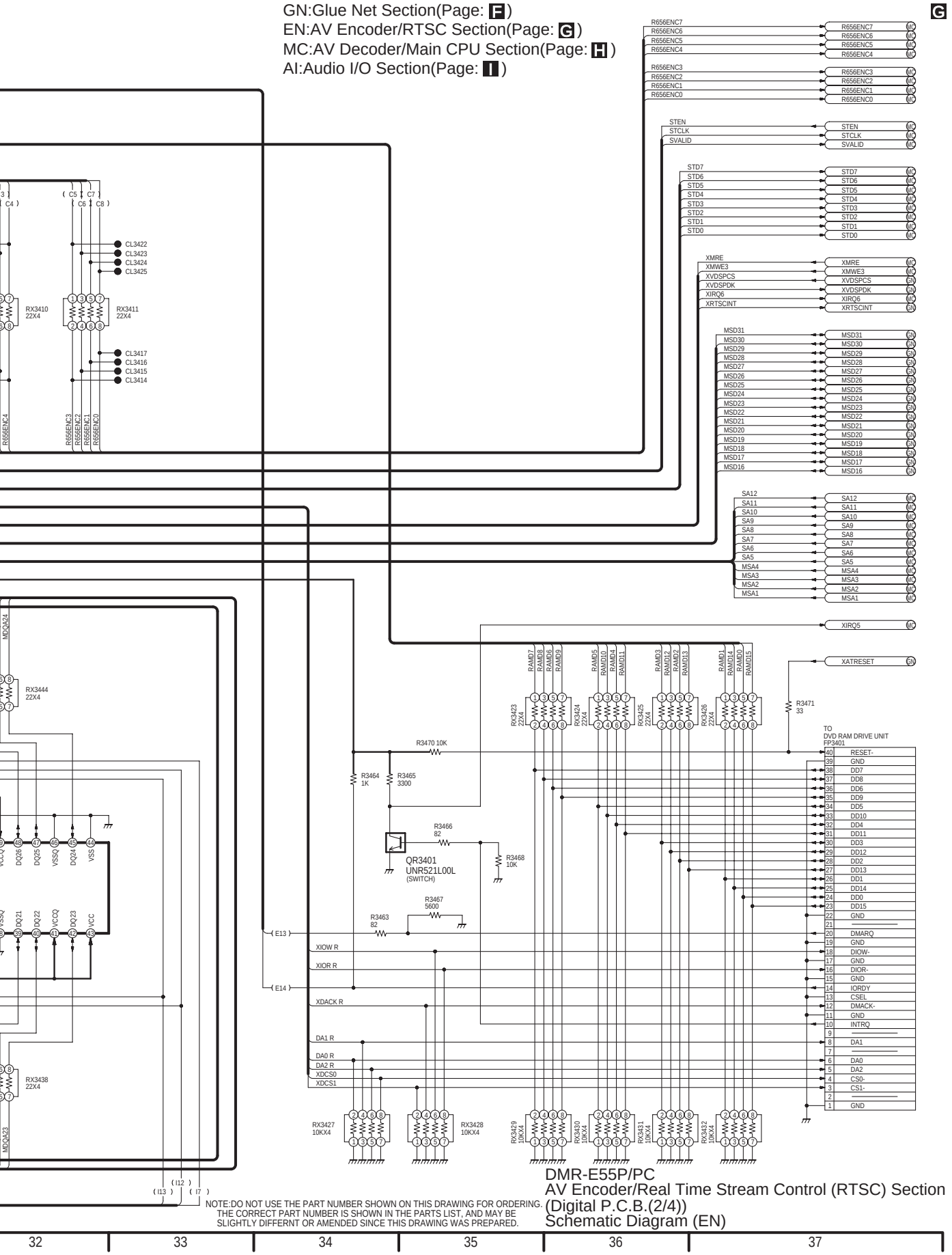
19 | 20 | 21 | 22 | 23 | 24 | 25



DMR-E55P/PC AV Encoder/Real Time Stream Control (RTSC) Section (Digital P.C.B.(2/4)) Schematic Diagram (EN)

26 | 27 | 28 | 29 | 30 | 31 | 32

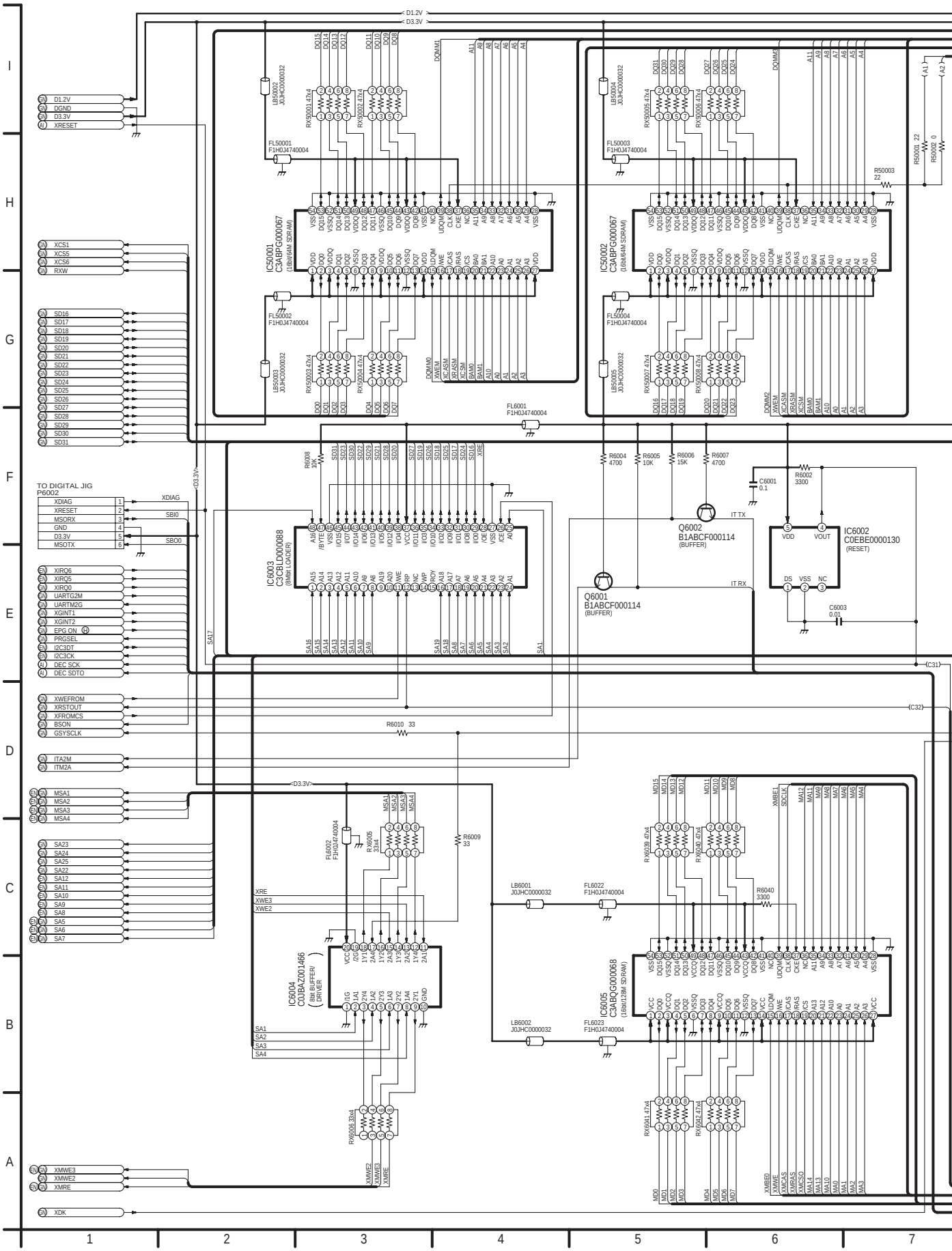
GN:Glue Net Section(Page: F)
EN:AV Encoder/RTSC Section(Page: G)
MC:AV Decoder/Main CPU Section(Page: H)
AI:Audio I/O Section(Page: I)



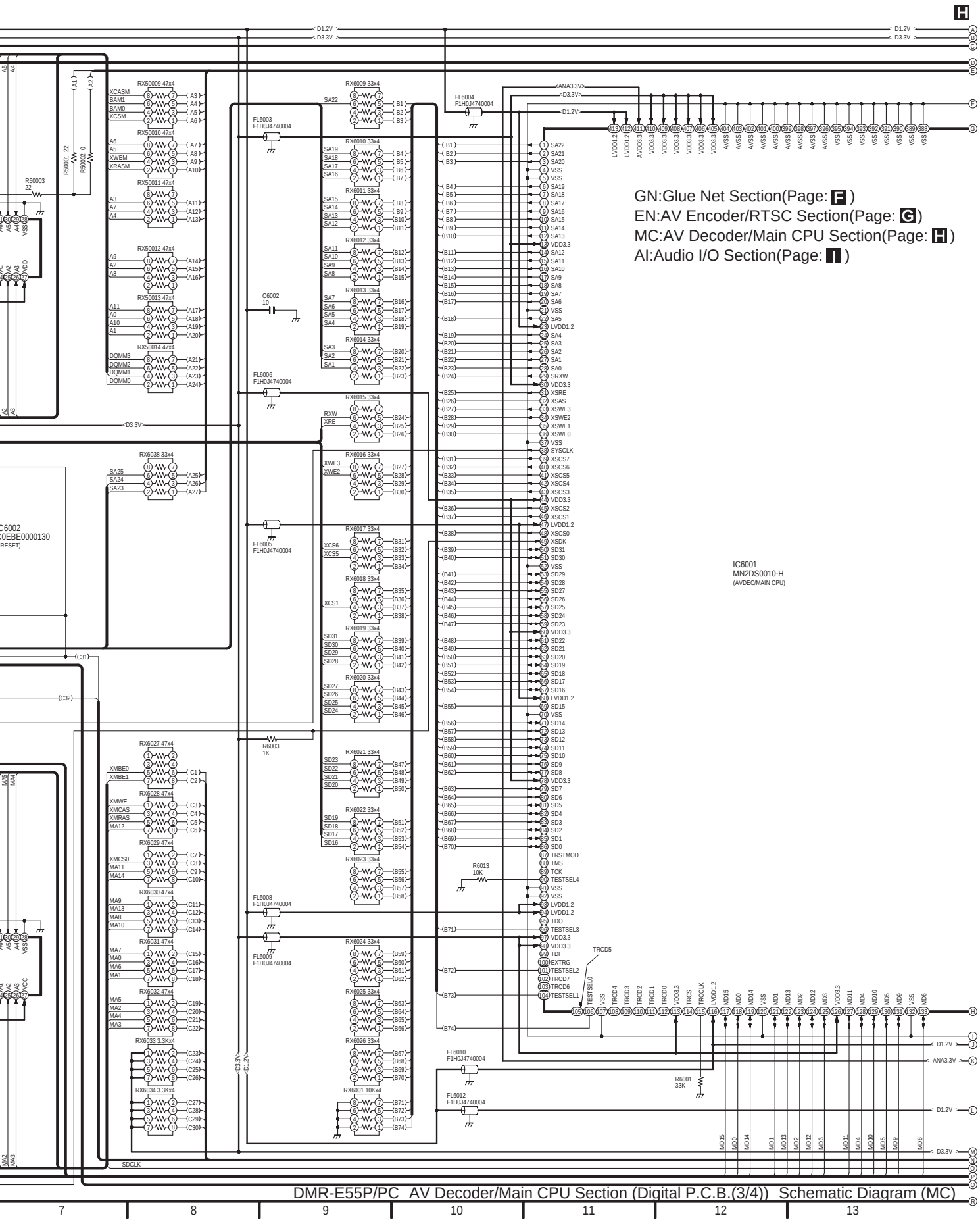
NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

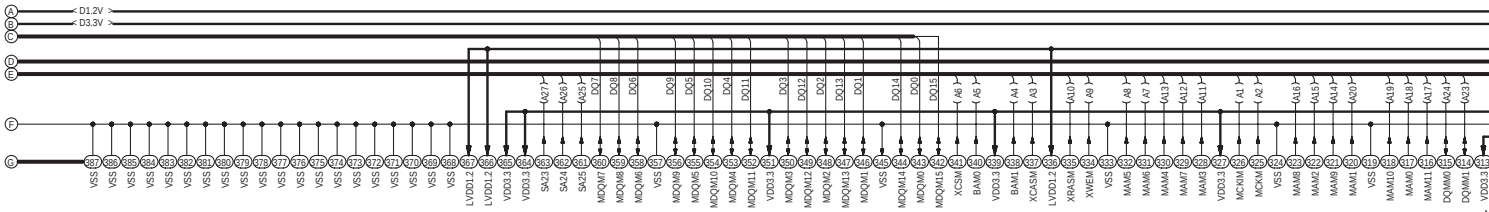
DMR-E55P/PC
AV Encoder/Real Time Stream Control (RTSC) Section
(Digital P.C.B.(2/4))
Schematic Diagram (EN)

19.10. AV Decoder/Main CPU Section (Digital P.C.B. (3/4)) Schematic Diagram (MC



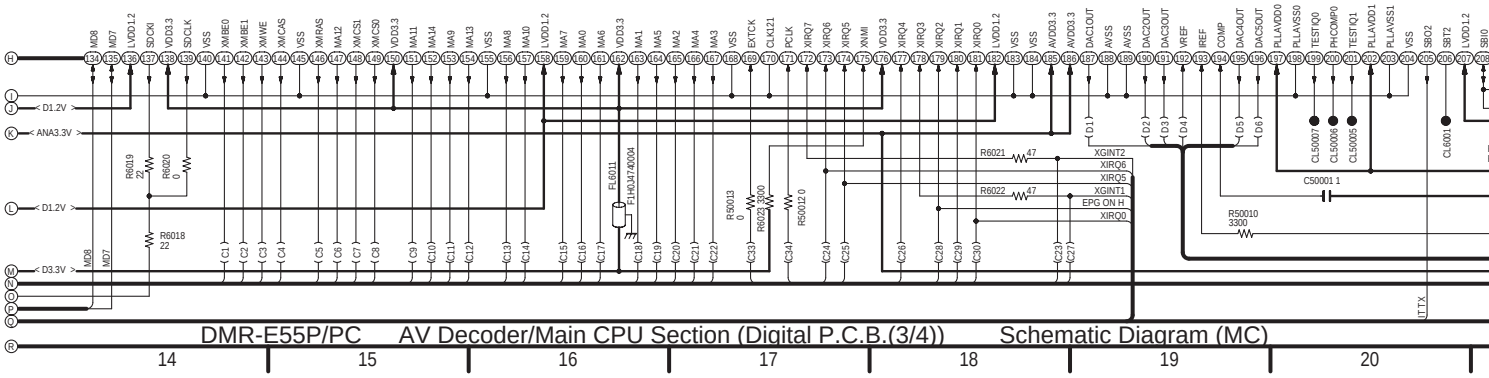
gram (MC)


GN:Glue Net Section(Page: F)
EN:AV Encoder/RTSC Section(Page: G)
MC:AV Decoder/Main CPU Section(Page: H)
AI:Audio I/O Section(Page: I)
IC6001
MN2DS0010-H
(AVDEC/MAIN CPU)

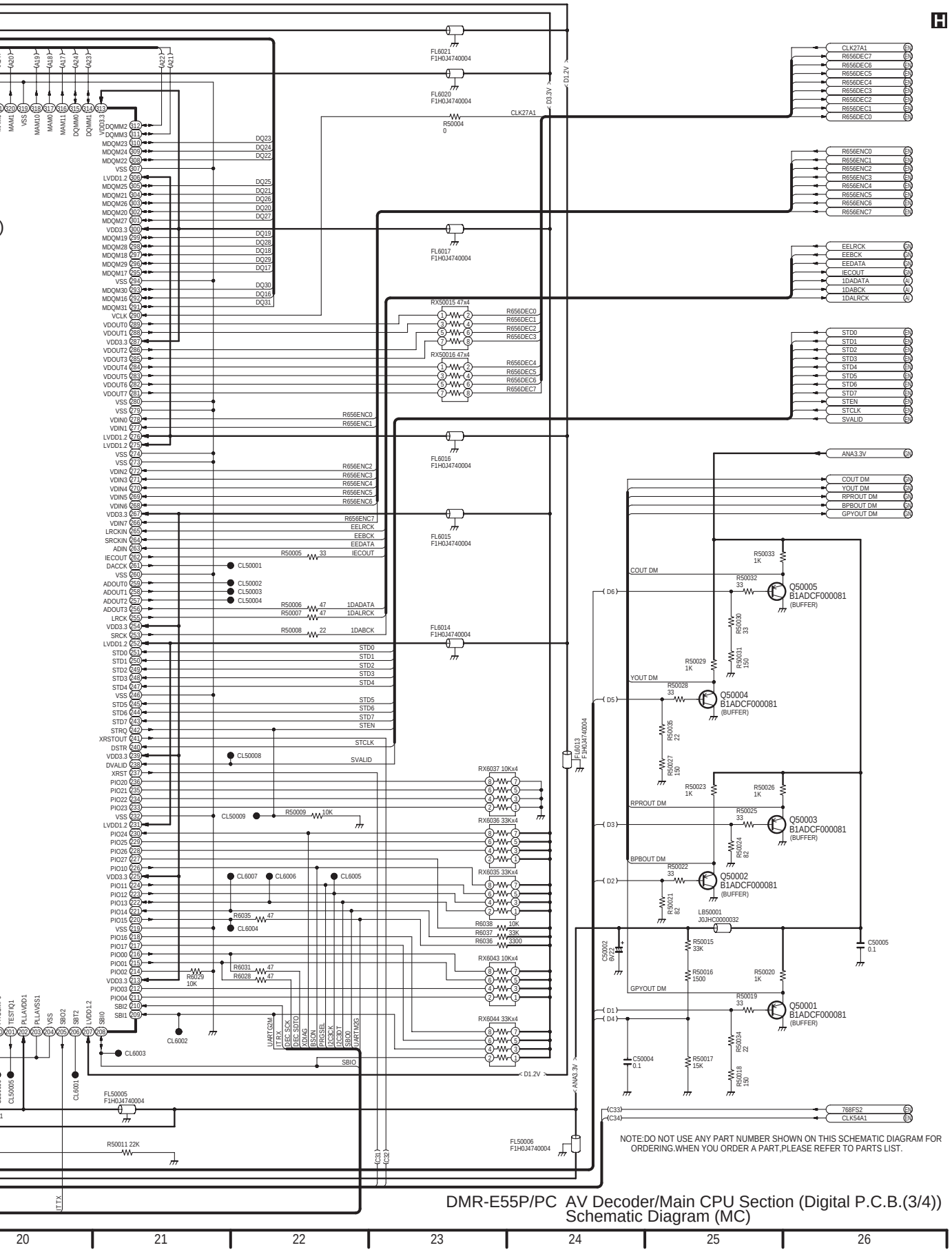


GN:Glue Net Section(Page: F)
EN:AV Encoder/RTSC Section(Page: G)
MC:AV Decoder/Main CPU Section(Page: H)
AI:Audio I/O Section(Page: I)

IC6001
MN2DS0010-H
(AVDEC/MAIN CPU)



DMR-E55P/PC AV Decoder/Main CPU Section (Digital P.C.B.(3/4)) Schematic Diagram (MC)

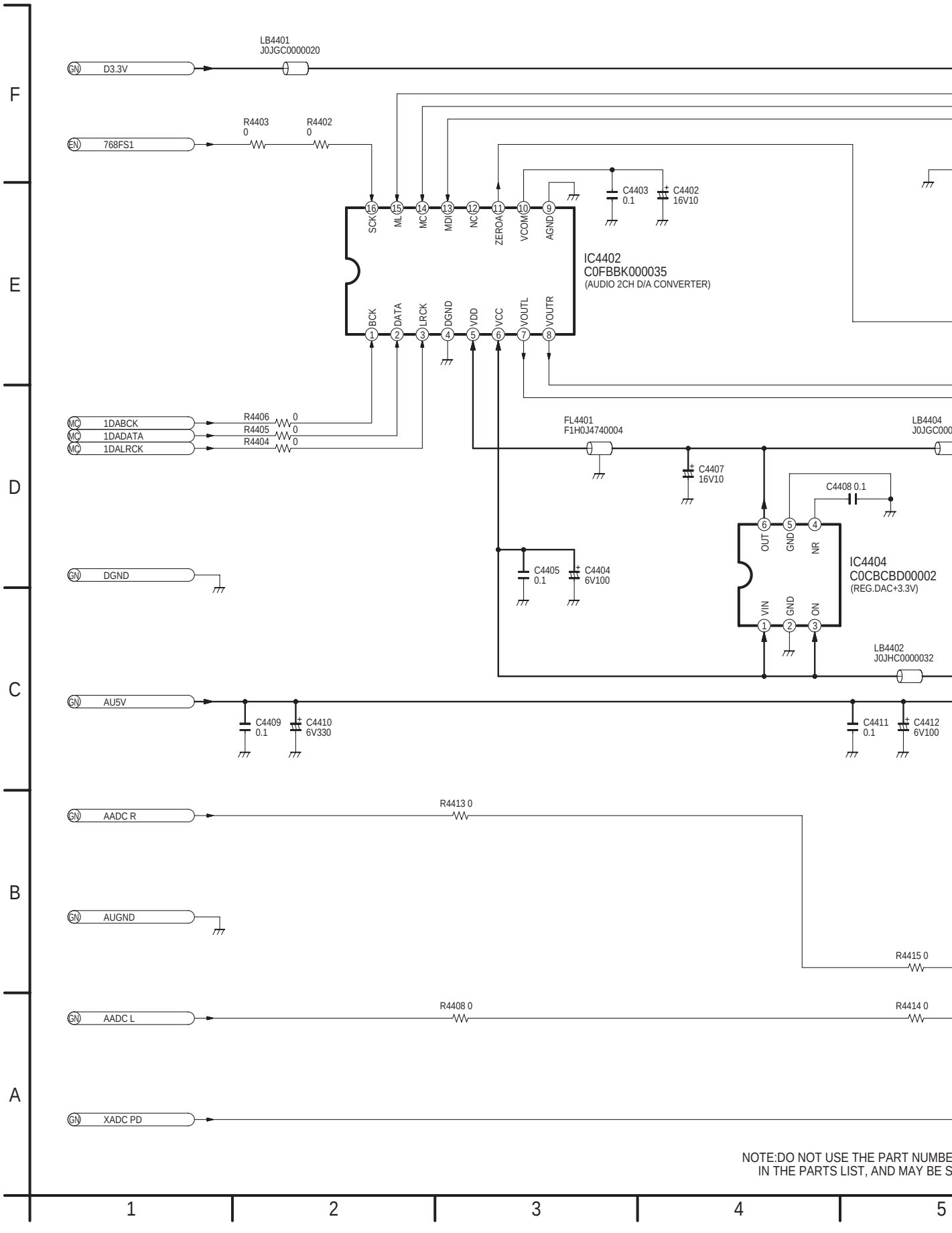


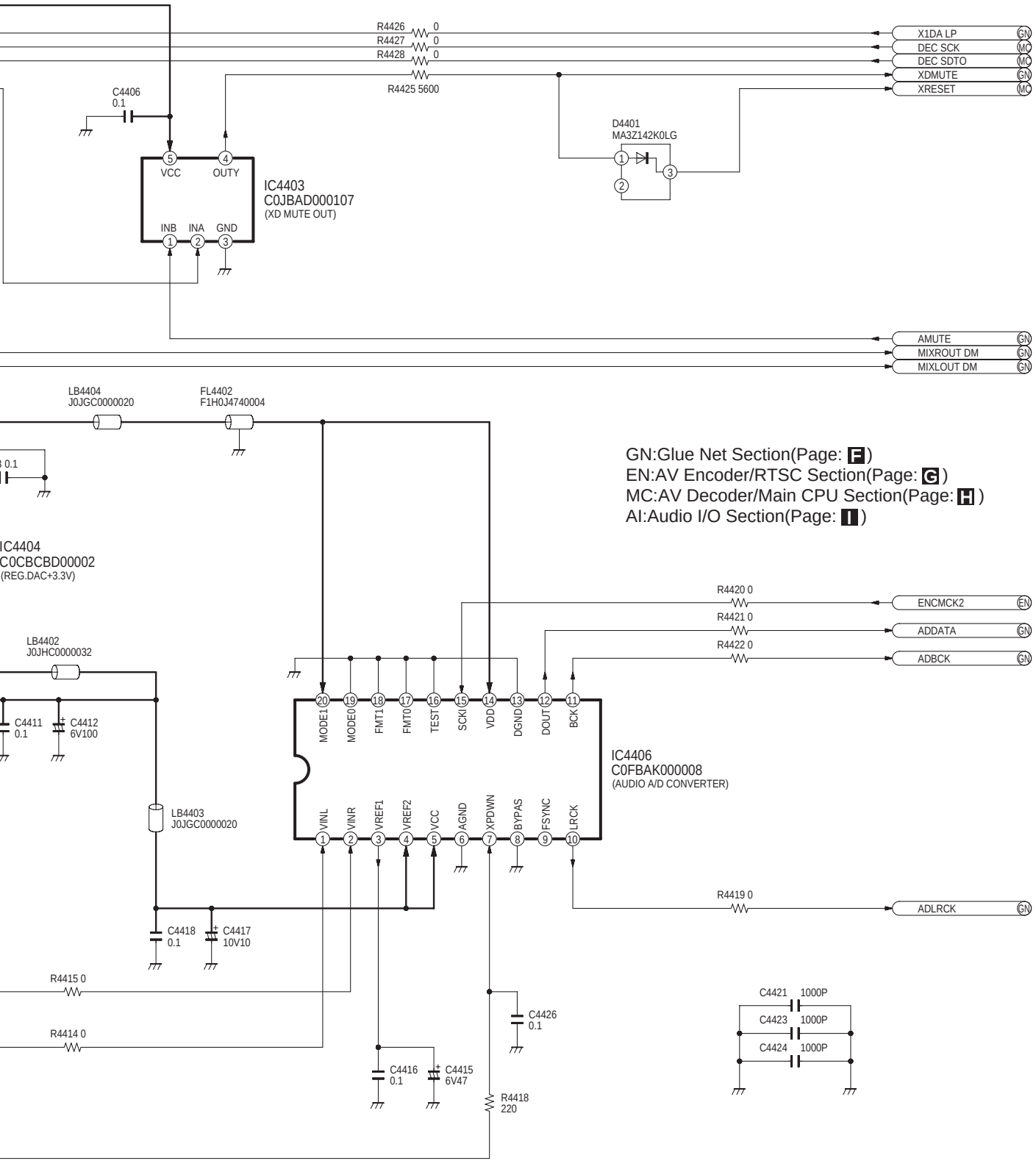
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

DMR-E55P/PC AV Decoder/Main CPU Section (Digital P.C.B.(3/4)) Schematic Diagram (MC)

20 21 22 23 24 25 26

19.11. Audio I/O Section (Digital P.C.B. (4/4)) Schematic Diagram (AI)



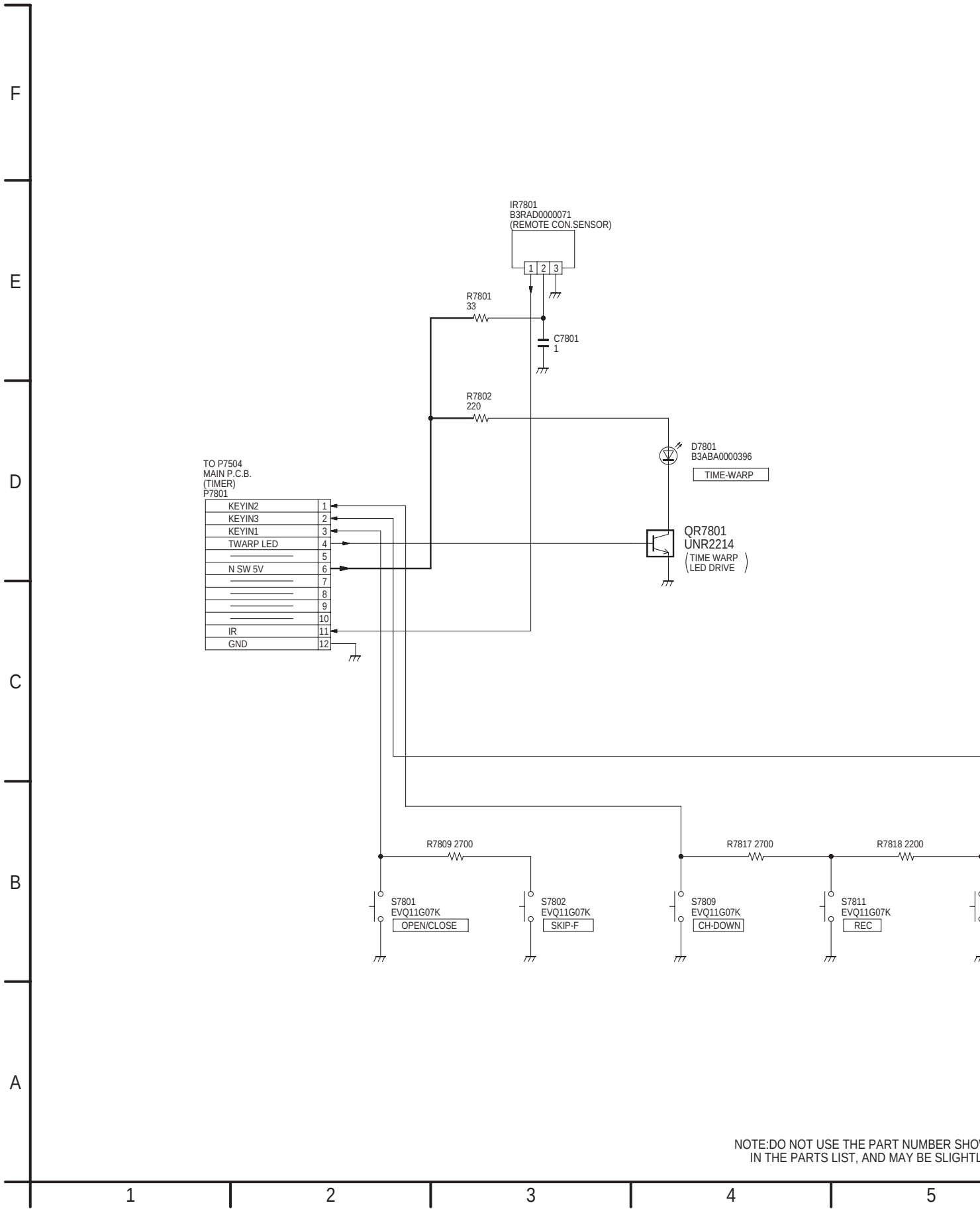


THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
ST, AND MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

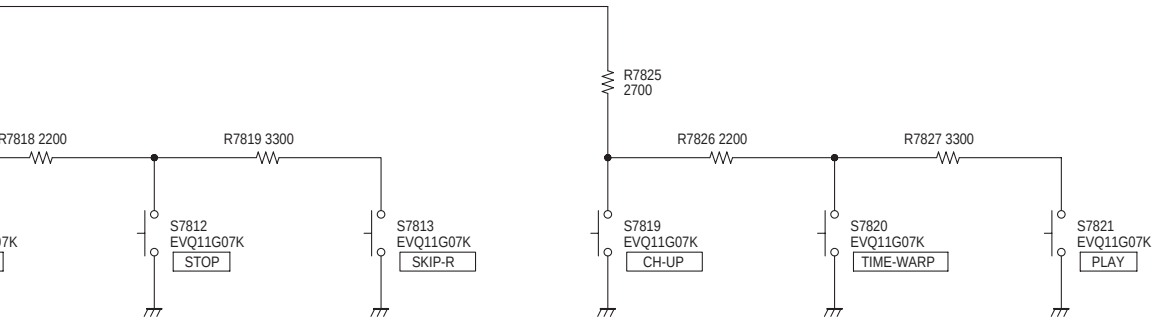
DMR-E55P/PC
Audio I/O Section (Digital P.C.B.(4/4))
Schematic Diagram (AI)

5 | 6 | 7 | 8 | 9

19.12. Front (R) Schematic Diagram



NOTE:DO NOT USE THE PART NUMBER SHO
IN THE PARTS LIST, AND MAY BE SLIGHTL



ART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
D MAY BE SLIGHTLY DIFFERNT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

DMR-E55P/PC
Front (R)
Schematic Diagram

5 | 6 | 7 | 8 | 9